MEGAFORTRESS

Operation: Sledgehammer

MEGAFORTRESS: OPERATION SLEDGEHAMMER

Computer Simulation

Produced by

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2300 02MAR94 Kuwait International Airport

Shadows in the silent hangar stretched hundreds of feet, cutting huge black angles across the cracked concrete floor. Lieutenant General Bradley Elliott, USAF, stood facing the two Iranians in the dim yellow light cast by a single old work lamp. The air reeked of oil and desert dust.

The sweating cabinet minister mopped his forehead and spoke rapidly in Farsi to his interpreter, a young, tired-looking woman. She turned nervously toward Elliott. "The minister asks if you have brought the 'potk'... the 'sledgehammer' spoken of by your ambassador in Kuwait City?"

"Tell the minister that we are prepared to carry out our part of the bargain if we receive the data we require." Elliott's voice rasped in low tones through the hot air of the darkened hangar. "We want to see your government secure against the extremists in your army. But we need locations and specs on certain targets to finalize our work."

The minister and his aide spoke together for a strained moment. She turned again to Elliott. "The minister is concerned also about the Libyan terrorist machine. He says the training camps and factories and supplies must be stopped also, or his coalition will be... destabilized?"

"We already have made plans to deal with that situation," said the general grimly.

A sound broke the stillness, in darkness a couple of hundred feet behind Elliott's left shoulder—a soft hiss and dull clank, as though a hydraulic door were being closed and latched. Elliott didn't move.

Reluctantly, the minister pulled a slim manila folder filled with loose documents from his robes and handed it to Elliott. "He says that he will die if these are discovered missing, and prays that you safeguard them," said the woman.

Elliott half-smiled to himself in the darkness. "Ma'am, you tell him it's safe with me." As if by signal, a Kuwaiti lieutenant materialized out of the shadows and the two visitors were ushered out.

Elliot turned as the lights came up. He looked at the monster slowly appearing where the shadows had been, its heavily loaded wings drooping slightly at the tips. He smiled. "Potk, huh? As good a description as any, I guess."

0700 03MAR94 Valletta Malta

"All right, pipe down! Let's get started!" The men and women in the small briefing room quieted and faced front, where General Elliott stood.

Of the dozen people in the room, only the General's aide, Major Sampson Kerry, knew that the Old Man had been awake for 36 hours, flying from Nevada to Kuwait and back to Malta in time for the briefing this morning. "Never could sleep in the air, even if I'm not doing the flying," the Old Man had once told him. "Serious handicap in this lousy business."

The Old Man stared at his shoes for a moment as they settled down, his hands clasped behind his back. He looked up and caught them in the gaze from his dark blue eyes. "I trust you all slept well. You're not going to get much sleep for the next few weeks."

"When you're not flying or eating you'll be studying your stations or practicing with the DTM-reader. Sleep when you have to, no more than you think you can afford. You wanna come back in one piece, you'll know the geography, threat locations, and tactical procedures cold. Yeah, I know you don't retain as well when you miss rack time, but we're up against a deadline here that's out of our control."

"Six weeks ago, a new leader took command of Iran's military forces and launched a strong-arm power-grab against Prime Minister Ardesher Mohsen's new moderate government. General Mahmoud Nasser, Iran's current Army Chief of Staff, has made a career of advancing his military ambitions under the cloak of Islamic fundamentalism. Operating from training camps east of Teheran, Nasser's terrorist thugs are using religious zealotry to incite anti-government riots throughout the country, forcing confrontations between government police and the citizens. Nasser and his officers have lately begun contacting government ministers directly, threatening the use of conventional, or even chemical and nuclear weapons to overthrow them if they refuse to turn over state control to him.

Intelligence tells us that Iran doesn't have nukes yet, but has had researchers working on it for many years and could be very close. They've definitely got chemical weapons, but until now have been more restrained than the Iraqis in using them.

Mohsen's government has made it impossible for Nasser to get military aid and supplies through normal international channels, but Nasser is well-supplied by his good buddy Moammar Khadafy in Libya, just about 200 miles south from where you're sitting right now. Advisers, trainers, strike teams, weapons, cash... you name it, the Libyans are sending it to Nasser.

The Libyans can send men and money overland, but weapons and heavy equipment have to go by ship, either under false papers on merchant steamers through the Suez, or the long way around Africa guarded by Libyan warships and fighters.

Anyway, the upshot is that we're gonna deal with the Libyan supply machine first, before visiting the Iranians. Mohsen's people believe they can maintain control for eight weeks maximum—and that's probably stretching it some. My opinion is they're being optimistic.

We've scheduled 11 missions over the next 12 days to eliminate Libya's terrorist training camp system, its primary fighter bases, fuel supplies, port facilities and warships, chemical factories, communication centers—even Moammar's hideaway CIC. In short, the Megafortress is going to put Libya out of the military resupply business.

When we finish with Libya, we move our team to the Gulf and take apart Nasser's machine. The other Megafort is there and being tuned now. 16 days, 14 missions. We take out their air defense system and nuke research center, then go for the communications centers, naval facilities, fuel storage, training camps and so on. Nasser's the kind of bully who needs to wave a big stick in order to intimidate people. We're gonna to take his stick away.

The name of this operation is 'sledgehammer.'

"Questions?"

Karen Butler, the EW officer, spoke up at once: "What kind of SAM resistance are we gonna have to deal with?"

"Both Iran and Libya have spent a bunch of time and money in the last few last years beefing up their SAM deployments. There are still a lot of old SA-2 batteries in both areas, but the Iranians also have the HAWK and SA-12A Gladiator, and the Libyans are known to be deploying the SA-10 Grumble. The HAWK is limited to about 25 miles, but is still very reliable inside that distance—a tribute to the US weapons industry.

We still don't know what Gladiator looks like, but we do know it's warhead is about half again as powerful as the Grumble's. And even though it's not as fast as the Grumble, we suspect its guidance system is much more reliable. Don't try to get cute with it. You'll lose.

The Grumble is one fast and nasty customer. Range 60 miles, multi-target tracking, and all that sort of good stuff. Stay clear of it! And by the way, both the Libyans and the Iranians mount it on some of their ships."

Mike Banks, the new OW officer, raised a hand. "Do we really need to worry much about their so-called navies?"

"Their tubs may be old, Mike, but the stuff they'll be shooting at you isn't. The Libyans, for example, have some Nanuchka II missile corvettes that have been refitted with the same SA-N-4s and the SA-N-6s that are mounted on their WWII destroyers. The Iranians have some guided missile destroyers carrying both Grumbles and the older SM-1 MRs. All of their ships carry modern triple-A guns, some with ranges out to seven or eight miles. To put it bluntly, you've got to deal with these 'so-called' navies before striking inland at the main targets."

"What kind of air cover are we up against? Are they flying anything new?" The copilot, Dave Butler, spoke from the back of the room.

"Both countries fly the F-5E, which several of you have flown as well, so no surprises there. Both also operate the MiG-25, which might drive like a truck, but can carry a mess of different weapons, including the AA-11—one very fast and persistent little sucker. Keep an eye peeled for it, especially in your six o'clock!

Libya's got a few MiG-23s, and remember that it has a gun on board so it can come at you even if you manage to dodge its missiles.

Last but not least, both countries now fly France's Mirage F1-C, and this is gonna be a definite problem. Not only is it maneuverable as hell, but it carries both Sidewinders and Matra R.550s—the Magic missile from France. It's stressed for 50 G maneuvers—50 Gs!—and can be fired from an aircraft in a 7 G turn. 4 mile range, Mach 2, IR homing, the works. That missile can definitely ruin your day.

Incidentally, we've had reports that Libya's taken delivery on some refitted TU-16 Badgers from the Soviets. Keep on the lookout for them and blast 'em if you get the chance. We don't want Nasser getting that kind of bomber support if we can help it."

"Any special weapons for the operation?" asked Trapp.

"We're gonna give you some ASM-119A Penguins to use on the ocean-going stuff. They're less expensive than the Harpoon and we've got to watch the bottom line since the budget cuts went into effect. We're also loading a new fuel-air explosive, the CBU-95. It's laser guided like the Rockeye II and can make a serious mess of fortified shelters like concrete hangars and sub pens."

Elliott waited a moment or two, and when no one said anything more, he leaned back against the table in the front of the room and crossed his arms.

"Very well. A lot of the stuff I've been talking about is covered in your briefing booklets. Take time to read over the information and then get to work. Mustn't keep Moammar waiting..."

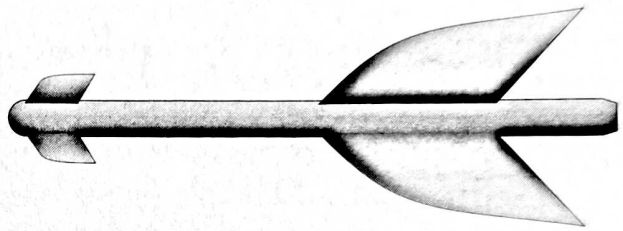
SPECIAL ORDNANCE - MEGAFORTRESS

Two new weapons have been added to the EB-52 arsenal for Operation Sledgehammer: the ASM-119A Penguin anti-ship missile (ASM), and the CBU-95 Fuel Air Explosive (FAE).

ASM-119A Penguin

Role: A shorter range, less expensive antiship weapon than the AGM-84A Harpoon, the Penguin antiship missile gives the EB-52 a cost-efficient way to deal with the outmoded Iranian and Libyan navies.

Description: Originally the Norwegian Penguin Mk 3, the ASM-119A can be launched by aircraft flying at speeds up to Mach 1.2, and launched from any height between 150 and 30,000 feet. Target aquisition is through visual identification (camera view) or radar.



ASM-119A Penguin

Range	20 miles	Weight	820 lb.
Warhead	265 lb. armor-piercing high explosive	Powerplant	2-stage, solid propellant rocket
		Speed	528 kts
Guidance	Programmed inertial mid-course guidance; infrared terminal homing	Dimensions	length: 10 ft 4.75 in body diameter: 11 in wing span: 3 ft 3.25 in

The weapon does not skim the ocean surface like the Harpoon. Instead, it flies to a point under on-board inertial guidance, switches on an IR homing sensor, and searches for a hot ship against the cool ocean surface. Its sensors are completely passive, and it therefore does not announce itself the way the Harpoon does.

This flexibility, along with its relatively small price and size makes the Penguin the antiship weapon of choice against the Libyan and Iranian navies.

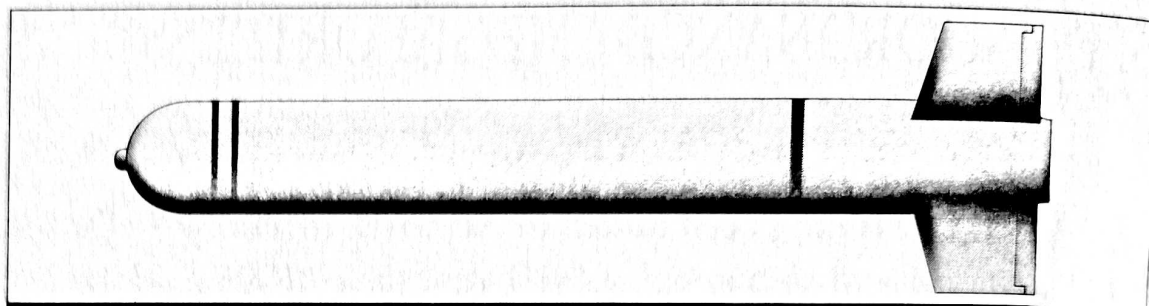
Operation: Within the missile's range,

1) Lock onto target ship using CAMERA or radar.
2) Open bomb bay doors, if necessary.
3) Launch weapon.
4) Close bomb bay doors.

CBU-95 Fuel-Air Explosive

Role: The CBU-95 FAE gives Megafortress a devastating weapon against fortified enemy installations.

Description: A delayed fuse ignites the gases released by the initial explosion of this laser-guided cluster bomb, causing a second, extremely powerful explosion and intense "overpressure" expansion of the surrounding air pressure. The net result is total devastation, particularly in fortified concrete enclosures such as hangars and bunkers.



CBU-95 FAE (Fuel-Air Explosive)

Guidance	Laser guided	Weight	500 lb.
Warhead	Fuel-air explosive cluster	Dimensions	length: 7 ft 11 in body diameter: 14 in
Vertical Release Coordinate	12		

Operation: Within the missile's range,

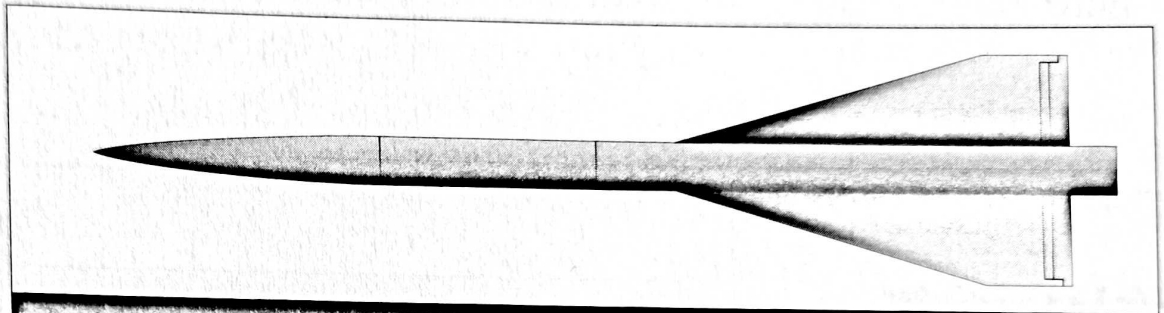
1) Lock onto target in CAMERA mode (preferable a non-heat or -radar-emitting target.
2) Open bomb bay doors, if necessary.
3) Steer aircraft so that the horizontal POSITION coordinate in the CAMERA panel reaches zero (0). This means that the aircraft is on course directly toward the target.
4) Select LAUNCH. When the vertical coordinate reaches 12, the weapon's laser guidance system will launch the weapon automatically.
5) Close bomb bay doors.

LAND-BASED ENEMY ORDNANCE - IRAN & LIBYA

Three new land-based surface-to-air missiles (SAMs) threaten the Megafortress in Operation Sledgehammer. In Iran, the SA-12A and HAWK SAMs appear in both mobile and stationary batteries, while in Libya the SA-10 is deployed in fairly large numbers. Note also that the naval platforms described in the next section carry additional surface-to-air ordnance.

HAWK

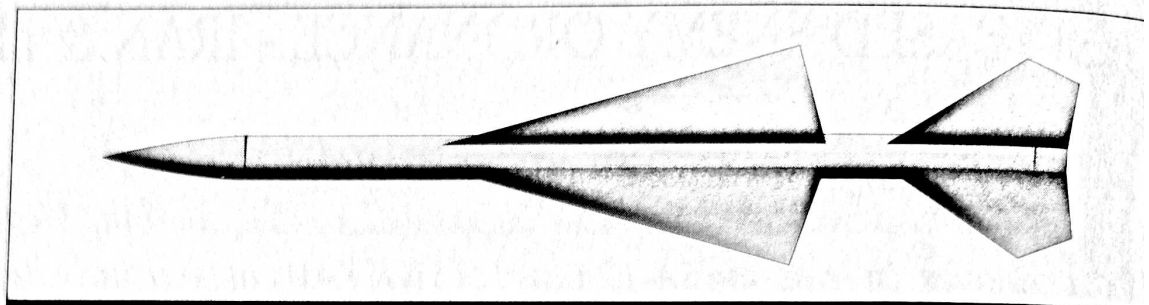
The HAWK is a medium range fixed site or trailered radar-homing SAM. Its 25 mile range and powerful warhead makes it a serious threat to Megafortress during bombing runs.



HAWK			
Guidance	Command guidance by proportional navigation. Semi-active radar homing.		
Warhead	Approximately 100lb. high explosive	Range	25 miles

SA-10 Grumble

The SA-10 is a long-range, all-weather all-altitude strategic SAM. The same missile is used in the naval SA-N-4 system, as deployed on the Iranian and Libyan destroyers, and on the Nanuchka II missile corvette. In addition to packing a 200 lb. warhead, the SA-10 is capable of multi-target tracking and engagement.



SA-10 Grumble

Guidance	Semi-active radar command, multi-target tracking and engagement		
Warhead	Approximately 200 lb. high explosive	Range	50 nautical miles at Mach 6

SA-12A Gladiator

The SA-12A is mounted on a tracked vehicle in two- and four-launcher configurations. Details about this medium- to longe-range SAM are sketchy, as the system has only recently been reported arriving in Iran. It is slightly longer than the SA-10, and may carry a 300+ lb. warhead.

illustration not available

SA-12A Gladiator

Guidance	Semi-active radar		
Warhead	300+ lb. high-explosive	Range	3.5–50 miles at Mach 3

ENEMY NAVAL PLATFORMS - IRAN

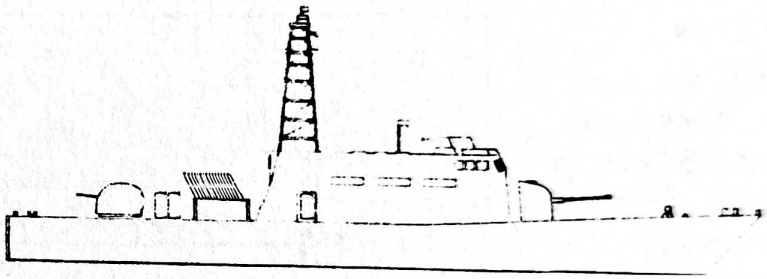
The Iranian navy maintains a relatively strong fleet in the Persian Gulf, including several Combattante II G Class fast attack craft, Vosper Mark 5 frigates, FRAM II Class destroyers, and Ex-British Battle Class destroyers. The destroyers and missile corvette are equipped with both the SA-N-4 Gecko and SA-N-6 Grumble surface-to-air missiles, as well as various configurations of anti-aircraft artillery (AAA). (NOTE: Sketches of these ships in their current configurations were hand-drawn by US intelligence operatives in the region. They are <u>not</u> to scale.)

Combattante II G FAC

This fast attack craft carries no SAMS, but does mount three anti-aircraft artillery (AAA) guns, including one 76mm weapon with an effective range of 6.8 miles. This AAA capability makes the Combattante II G a respectable threat to the Megafortress.

NOTE

Both the Iranian and Libyan navies deploy the Combattante II G.

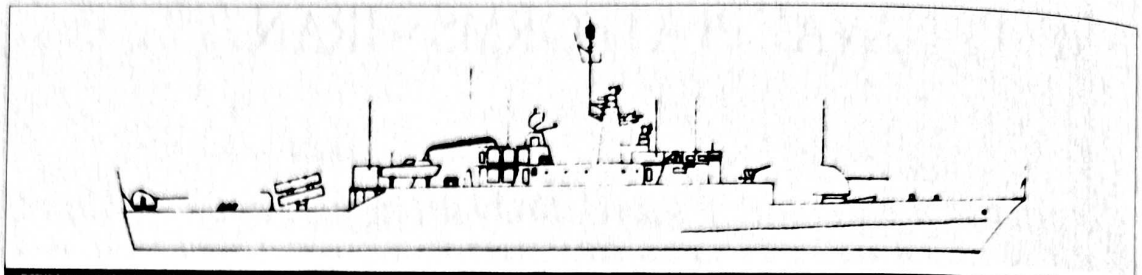


Combattante II G Class (Fast Attack Craft - Missile)

Displacement	311 tons fully loaded	Speed	39 kts.
Dimensions	(feet) 160.7 x 23.3 x 6.6	Range	1600 miles at 15 kts.
Missiles	No SAMs	Guns	• 1 OTO Melara 76mm/62 Compact; 85 rounds pe minute to 6.6nm (AAA). Shell wt. 6kg. • 2 Breda 40mm, 300-450 rounds/minute to 2.2nm. Shell wt. .96
Radars	Thomson-CSF Triton, G band Range 18nm.		

Vosper Mark 5

Even though it is not fitted with SAMs, the Mark 5's AAA capabilities make it worthy of Megafortress' attention.



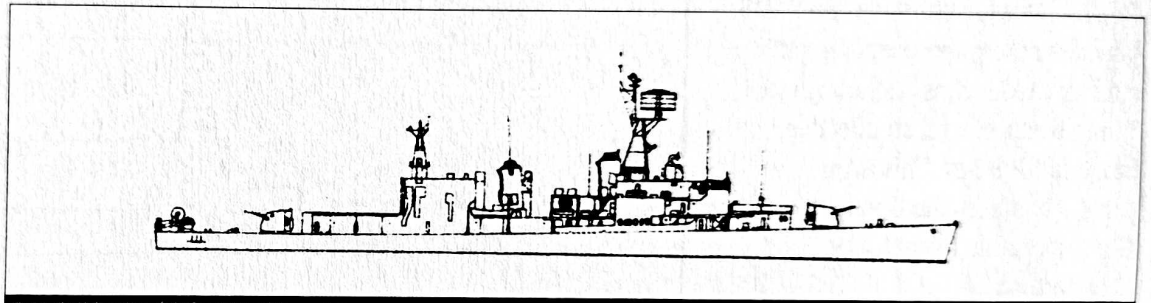
Vosper Mark 5 Class Frigate

Displacement	1100 tons standard, 1350 fully loaded	Speed	39 kts gas, 18 kts diesel.
Dimensions	(feet) 310 x 36.4 x 14.1	Range	3650 miles at 18 kts.
Missiles	No SAMs	Guns	• 1 Vickers 114mm. 25 rounds/ minute to 3.3nm. Shell wt. 21kg. • 2 Oerlikon 35mm. 550 rounds/minute to 3.3nm. Shell wt. 1.55kg. • 2 USSR 23mm. • 2 12.7mm MGs.
Radars	Plessey AWF, E/F band Range 110nm.		

Ex-US FRAM II Class

Actually the Ex-US Allen M Sumner (FRAM II) Class, these World War II frigates would be in mothballs, except that each carries a battery of 8 SM-1MR SAMs and the fearsome SA-N-6 Grumble. The SM-1MR has a height envelope from 150 to 60,000 ft, a range of 25 nm, and a top speed of Mach 2. Also, the ship's AAA gun can throw a 25 kg shell nearly six miles.

The powerful Westinghouse search radar has a range of 250 nautical miles, and each ship is equipped with a full suite of jammers and radar warning devices for ECM protection.

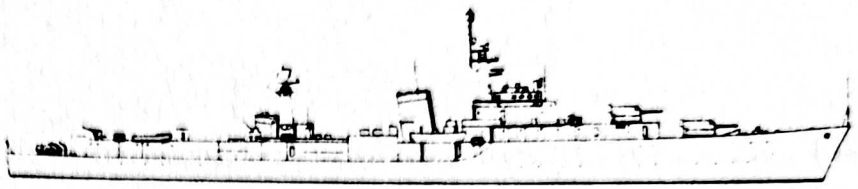


Ex-US FRAM II Class Destroyer

Displacement	2388 tons standard, 3254 fully loaded	Speed	34 kts.
Dimensions	(feet) 376.5 x 41 x 21.4	Range	3740 miles at 12.5 kts.
Missiles	• 4 SM-1MRs with command guidance, semi-active radar homing Range: 25nm at Mach 2. • 4 SA-N-6 Grumble, semi-active radar guidance; range 50nm at Mach 6.	Guns	• 4 US 127mm.15 rounds/ minute to 5.9nm. Shell wt. 25kg. • 4 USSR 23mm.
Radars	SPS 29C, B/C band; range 250nm.		

Ex-British Battle Class

This destroyer poses a serious threat to the Megafortress primarily because of its SM-1MR and SA-N-6 Grumble SAMs. Its AAA defense is also formidable, boasting a pair of Bofors 40mm guns with a range of 5.5 miles, in addition to the heavier Vickers. The Bofors fire at 120 rounds per minute.



Ex-British Battle Class Destroyer

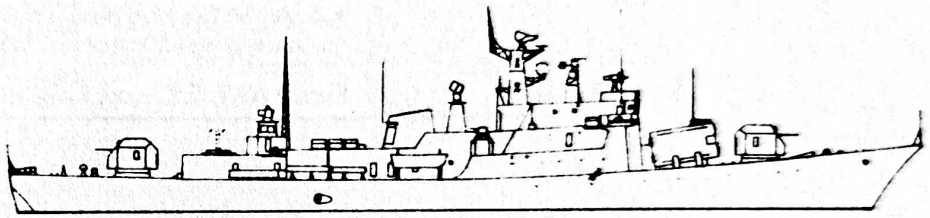
Displacement	2288 tons standard, 3404 fully loaded	Speed	31 kts.
Dimensions	(feet) 379 x 40.3 x 17.1	Range	3200 miles at 20 kts.
Missiles	• 4 SM-1MRs with command guidance, semi-active radar homing Range: 25nm at Mach 2. • 4 SA-N-6 Grumble, semi-active radar guidance; range 50nm at Mach 6	Guns	• 4 Vickers 114mm.15 rounds/ minute to 4.4nm. Shell wt. 25kg. • 2 Bofors 40mm. 120 rounds/ minute to 5.5nm. shell wt. .89kg. • 4 USSR 23mm.
Radars	Plessey AWF, E/F band; Range 110nm.		

ENEMY NAVAL PLATFORMS - LIBYA

Libya's navy includes a large proportion of Soviet hardware, including Soviet Koni class frigates and Nanuchka II class missile corvettes. The Libyans also maintain several Combattante II class fast attack craft (please see "Naval Platforms - Iran"), and Vosper Thornycroft Mark 7 frigates.

Soviet Koni Class Frigate

These type III Konis are relatively new, having been commissioned in 1986-87. Each carries 20 SA-N-4 Gecko SAMs and the nasty SA-N-6 Grumble with an effective range of 50 nautical miles and a top speed of Mach 6. Up-to-date radar, ECM, and AAA equipment makes these ships a serious threat to the Megafortress.

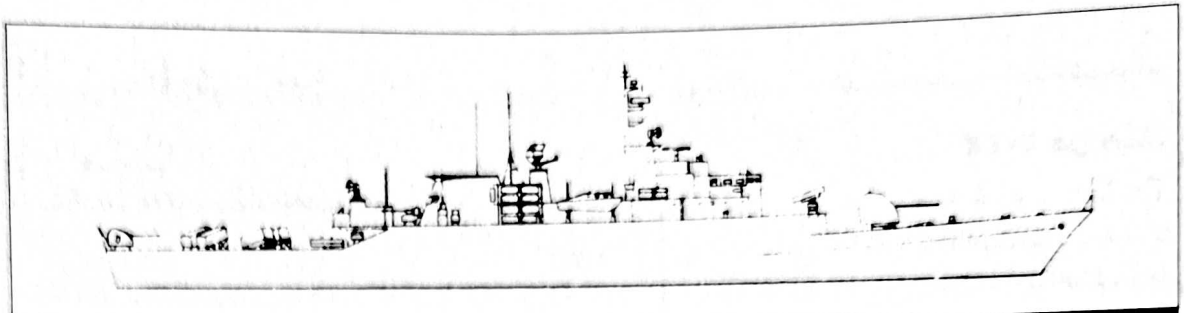


Soviet Koni Class Frigate

Displacement	1700 tons standard, 1900 fully loaded	Speed	27kts gas turbine, 22kts diesel.
Dimensions	(feet) 317.3 x 42 x 13.7	Range	1800 miles at 14 kts.
Missiles	20 SA-N-4 Geckos. Semi-active radar homing. Warhead 50kg. Range: 8nm at Mach 2.5. • 4 SA-N-6 Grumble, semi-active radar guidance; range 50nm at Mach 6.	Guns	• 4 Soviet 76mm. 60 rounds/ minute to 7.6nm. Shell wt. 16kg. • 4 Soviet 30mm. 500 rounds/minute to 2.7nm. Shell wt. .54kg.
Radars	Strut Curve, F band; range 110nm.		

Vosper Thornycroft Mark 7 Frigate

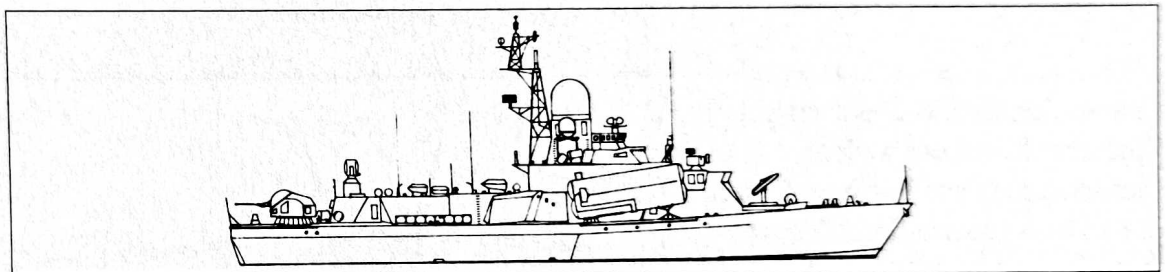
Slightly smaller than the Koni, this ship is much faster and carries the highly effective Albatros weapons system launching up to 32 small fast Aspide SAMs at a range of up to seven nautical miles, and it fairly bristles with AAA armament.



Vosper Thornycroft Mark 7 Frigate			
Displacement	1360 tons standard, 1780 fully loaded	Speed	37.5kts gas turbine, 17kts diesel.
Dimensions	(feet) 333 x 38.3 x 11.2	Range	5700 miles at 17 kts.
Missiles	Single 4-cell Albatros launcher firing Aspide SAMs. Semi-active homing to 7nm at Mach 2.5. Warhead 30kg.	Guns	• 1 Vickers 114mm.25 rnds/ minute to 3.3nm. Shell wt. 21kg. • 2 Oerlikon 35mm. 550 rnds/ minute to 2.7nm. Shell 1.55kg. • 2 Oerlikon 20mm. 800 rnds/ minute to 2km. Shell .24kg.
Radars	Selenia RAN, D/I band Range 45nm.		

Soviet Nanuchka II Class Missile Corvette

Libya has been operating the Nanuchka IIs for several years. The SA-N-4 Geckos are mounted in twin launchers, with 20 missiles total on board. The SA-N-6 Grumbles give the corvette a lethal long-distance punch against the Megafortress.



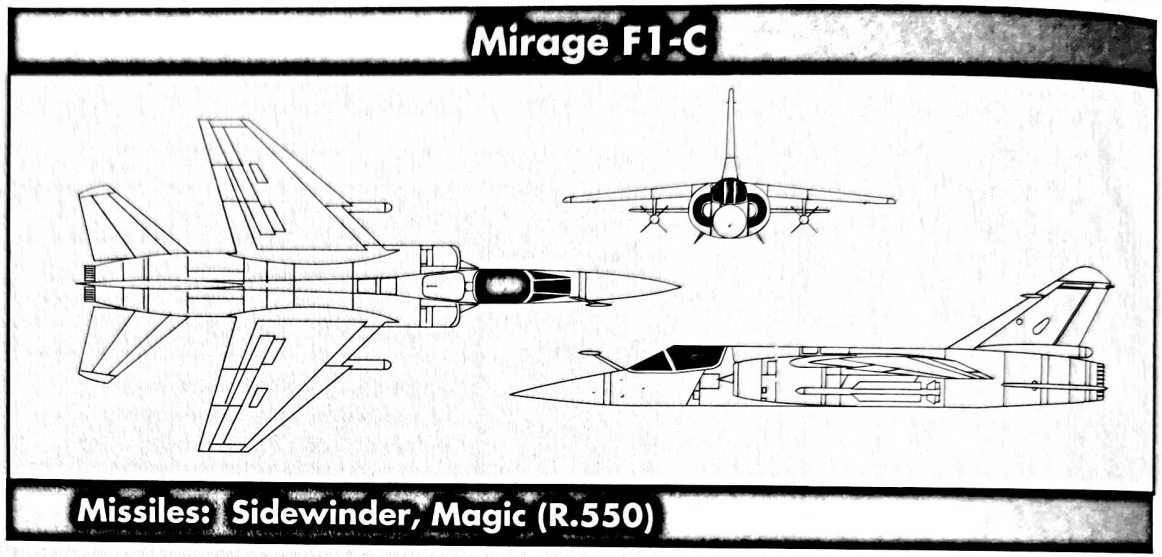
Soviet Nanuchka II Class Missile Corvette			
Displacement	560 tons standard, 660 fully loaded	Speed	34 kts.
Dimensions	(feet) 194.5 x 42.6 x 8.5	Range	2500 miles at 12 kts., 900 at 31.
Missiles	• 20 SA-N-4 Geckos. Semi-active radar homing. Warhead 50kg. Range: 8nm at Mach 2.5. • 4 SA-N-6 Grumble, semi-active radar guidance; range 50nm at Mach 6.	Guns	• 2 Soviet 57mm. 120 rounds/minute to 3.2nm. Shell wt. 2.8kg.
		Radars	Square Tie, I band; range 40nm.

ENEMY FIGHTER AIRCRAFT - IRAN & LIBYA

Mirage F-1C

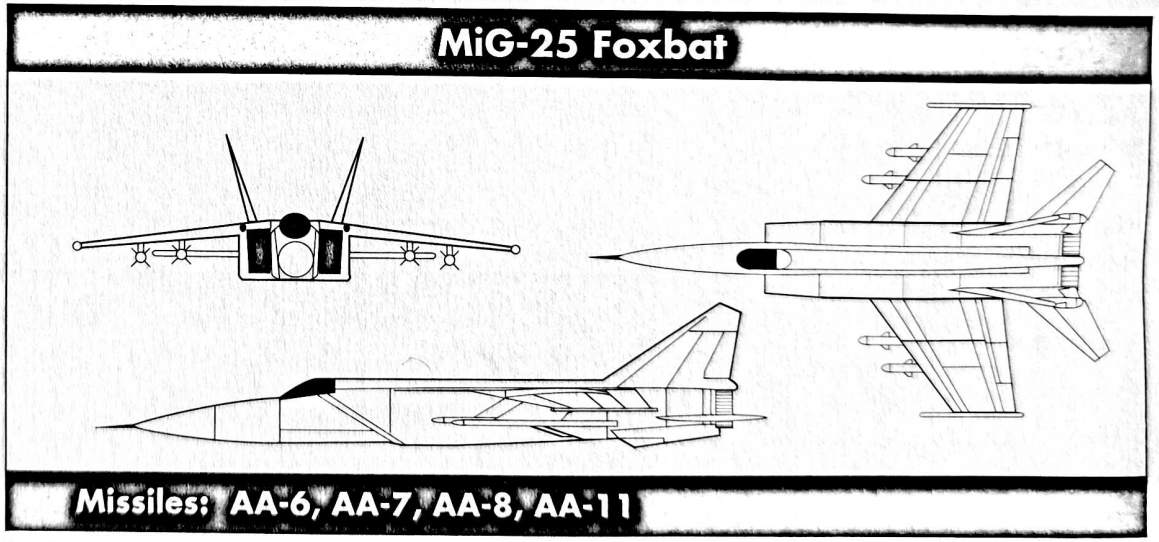
The Mirage F1-C is an all-weather, all-altitude interceptor and is flown by both Iran and Libya.

The Mirage F-1C is the most dangerous airborne threat to the Megafortress in Operation Sledgehammer because of its superior maneuverability and relentless Matra Magic air-to-air missiles. Automatic leading-edge flaps give it outstanding maneuverability in combat and great stability at high speeds close to the ground.



MiG-25 Foxbat

The fastest combat aircraft ever put into service, the MiG-25 is a 'straight line' aircraft: it takes a while to accelerate to its maximum speed (Mach 2.8 with wing-mounted missiles), at which point it becomes a 'lead sled' with a huge turn radius. It carries both a 'look down, shoot down' doppler radar and forward-looking IR sensor. AA-6, AA-7, AA-8, and AA-11 air-to-air missiles can be carried in various combinations.and numbers. The aircraft carries no cannon, and is flown by both Libya and Iran.

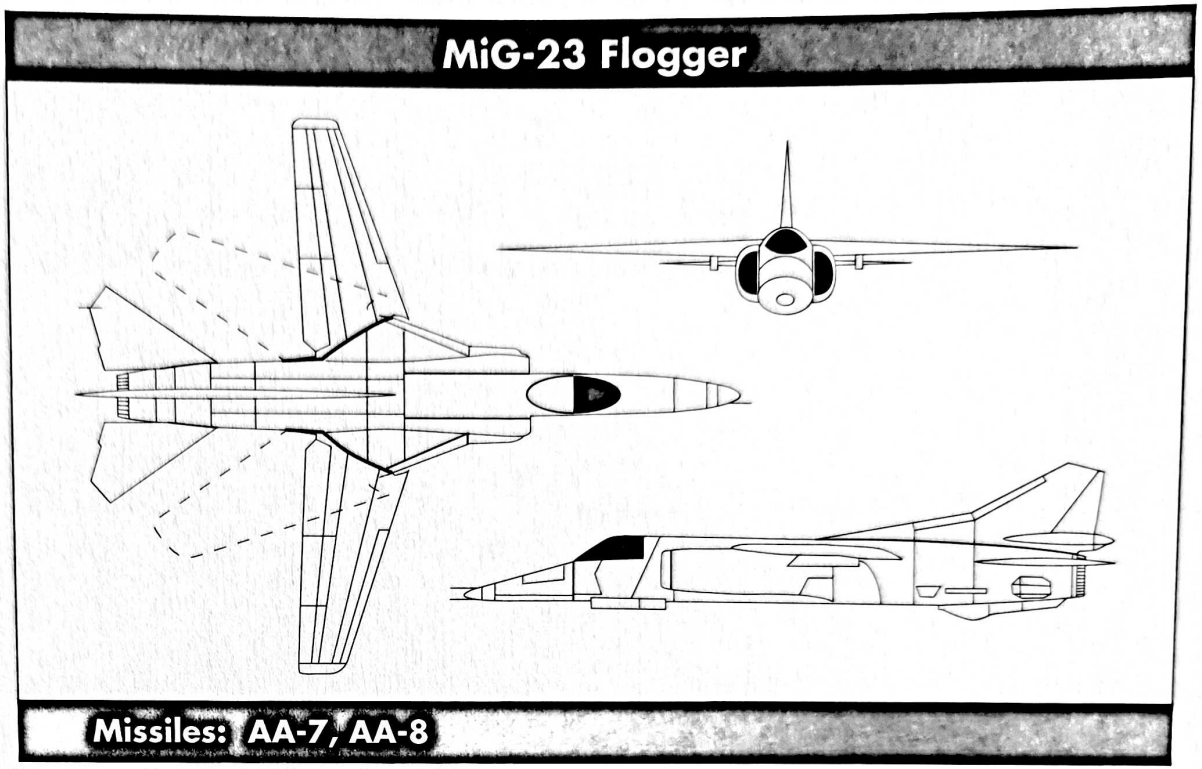


MiG-23 Flogger

More MiG-23s have been built in the last dozen years than any other combat aircraft in the world. The Soviets have exported hundreds, in several variations, to many countries, including Libya.

The MiG-23 is more maneuverable, albeit less powerful than the MiG-25.

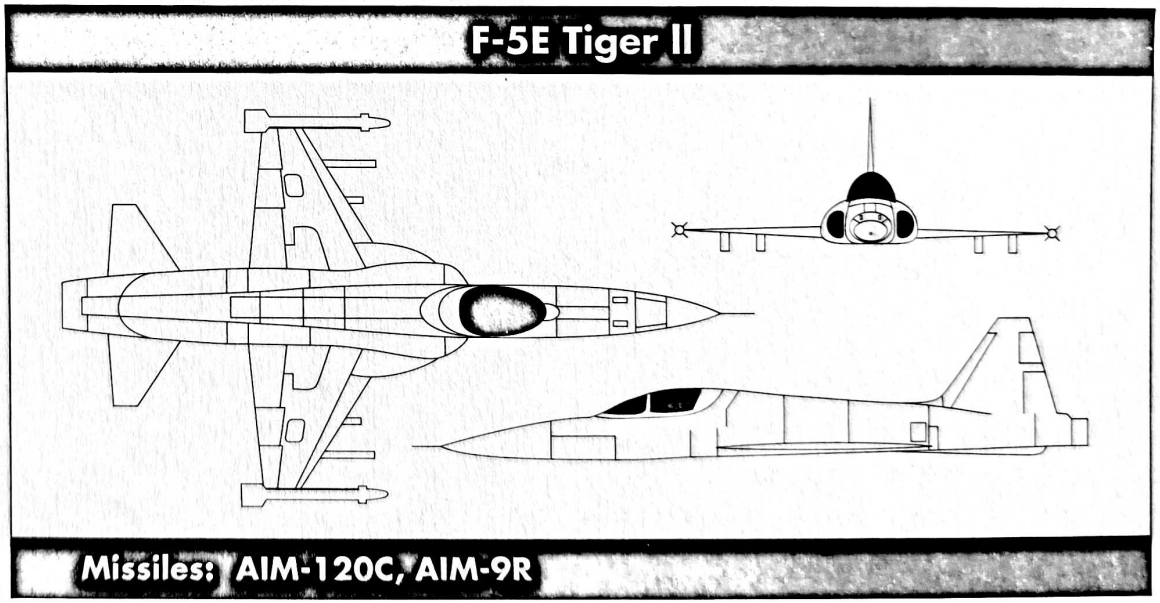
Unlike the Foxbat, it carries one twin-barrelled 23mm gun in its underbelly in addition to a full load of four AA-8 'Aphid' and two AA-7 'Apex' air-to-air missiles. If all of its missiles miss, the MiG-23 will attempt to rake the target with its gun in a final pass, generally from behind.



F-5E/F Tiger II

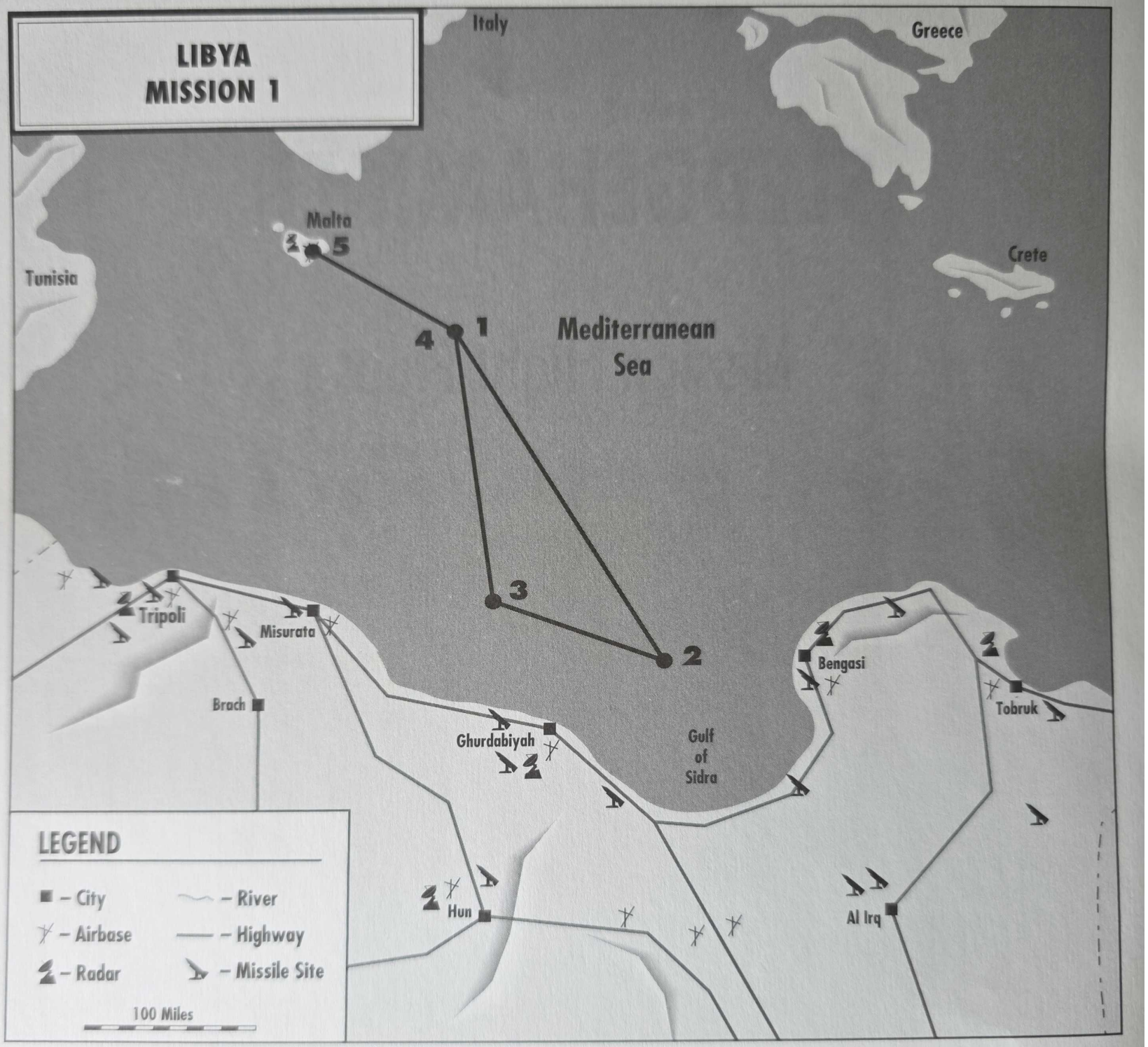
The single seat F-5E, first flown in August 1972, is basically a VFR day/night fighter with limited all-weather capability. Design emphasis is on maneuverability rather than high speed, notably through the use of maneuvering flaps. The aircraft is flown by Iran.

This is the same aircraft used to simulate late-model MiG threat aircraft in the "Red Flag" missions distributed with the original Megafortress software.



SLEDGEHAMMER

Mission Flight Plans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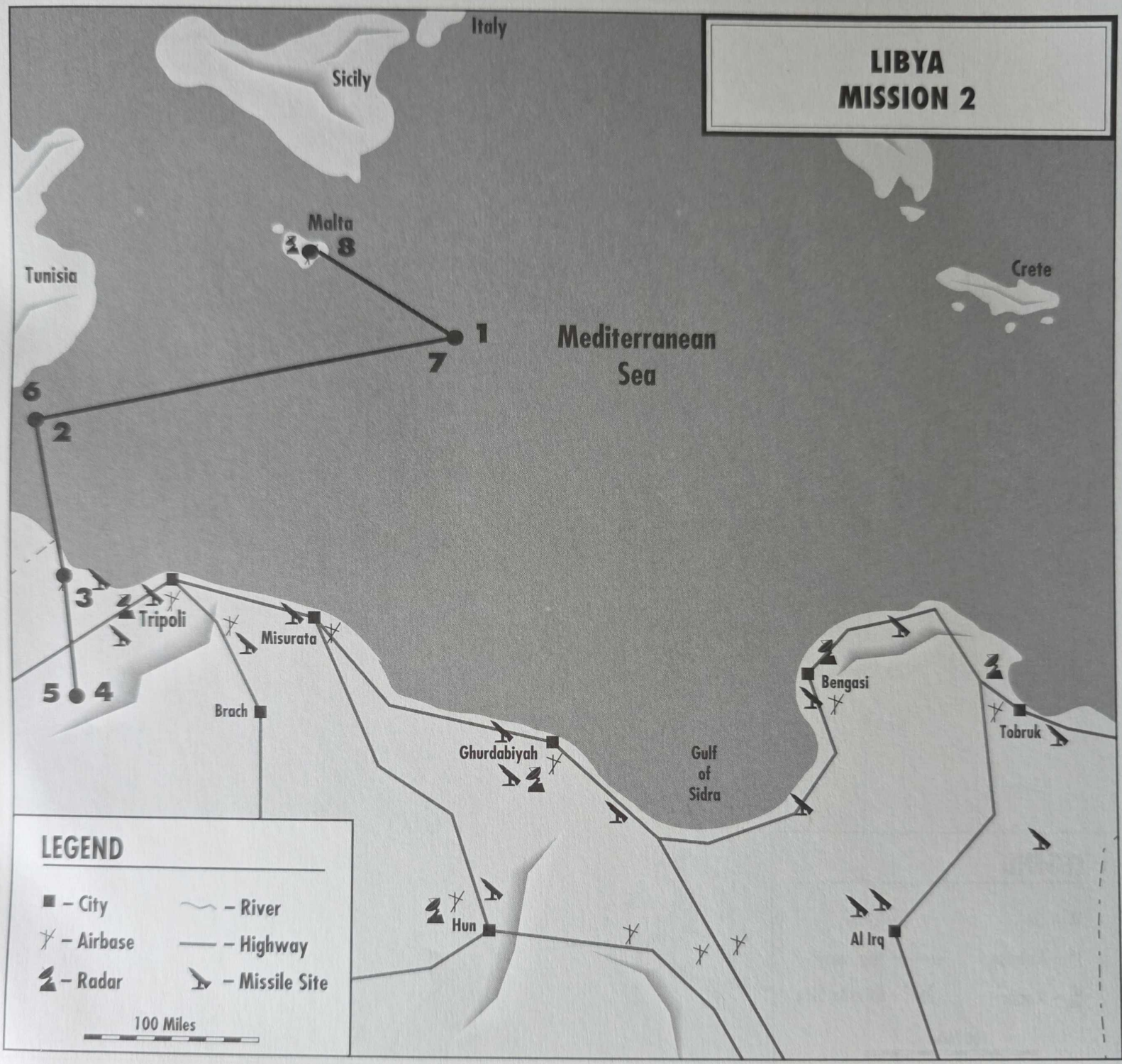
Italy
Greece
Malta
5
Crete
Tunisia
4
1
Mediterranean
Sea
3
2
Tripoli
Misurata
Bengasi
Tobruk
Brach
Ghurdabiyah
Gulf
of
Sidra
Hun
Al Irq
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles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Sea
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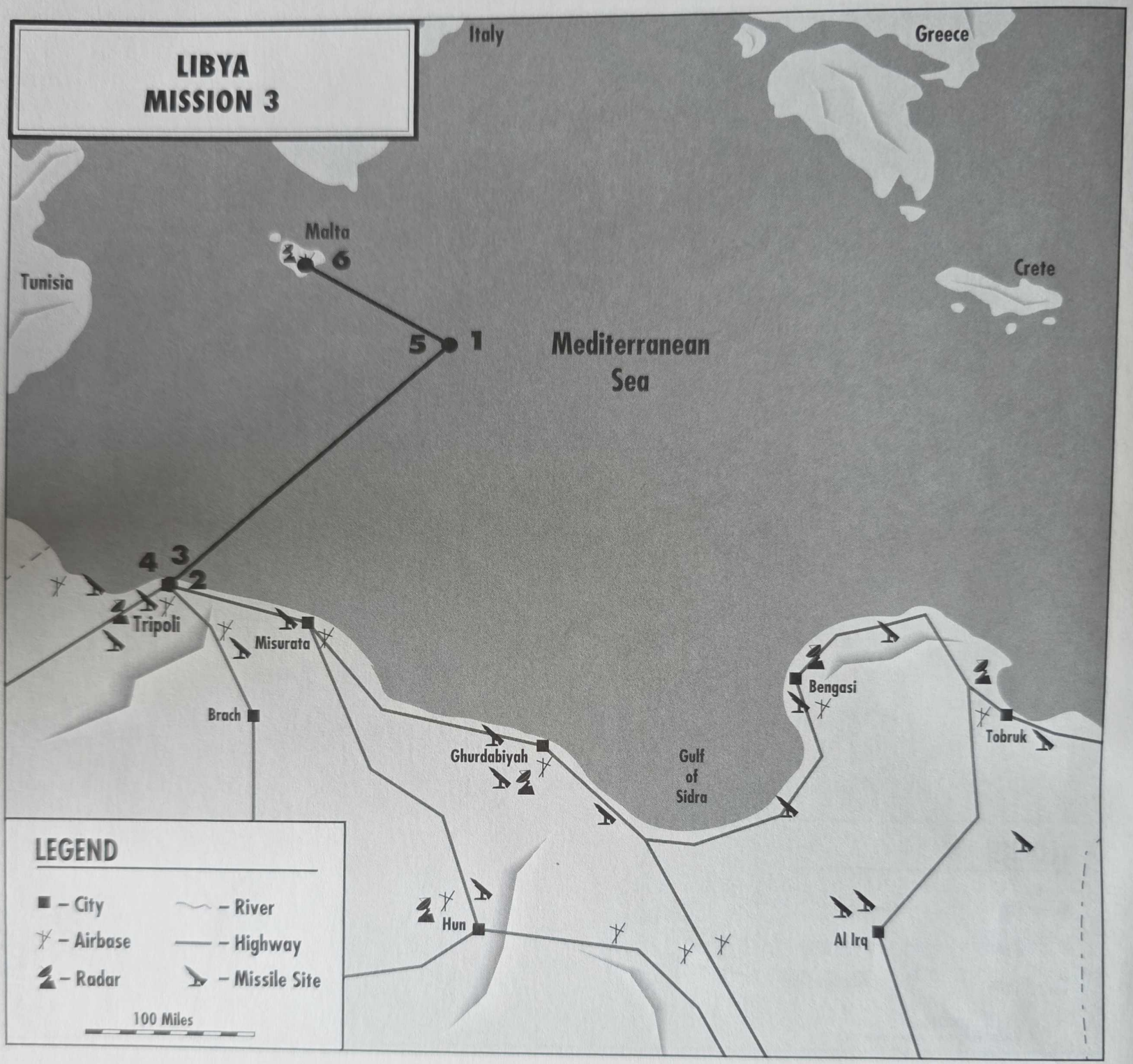
Misurata
5
4
Brach
Ghurdabiyah
Gulf
of
Sidra
Bengasi
Tobruk
Hun
Al Irq
LEGEND
■ – City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles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Greece
Malta
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Tunisia
Crete
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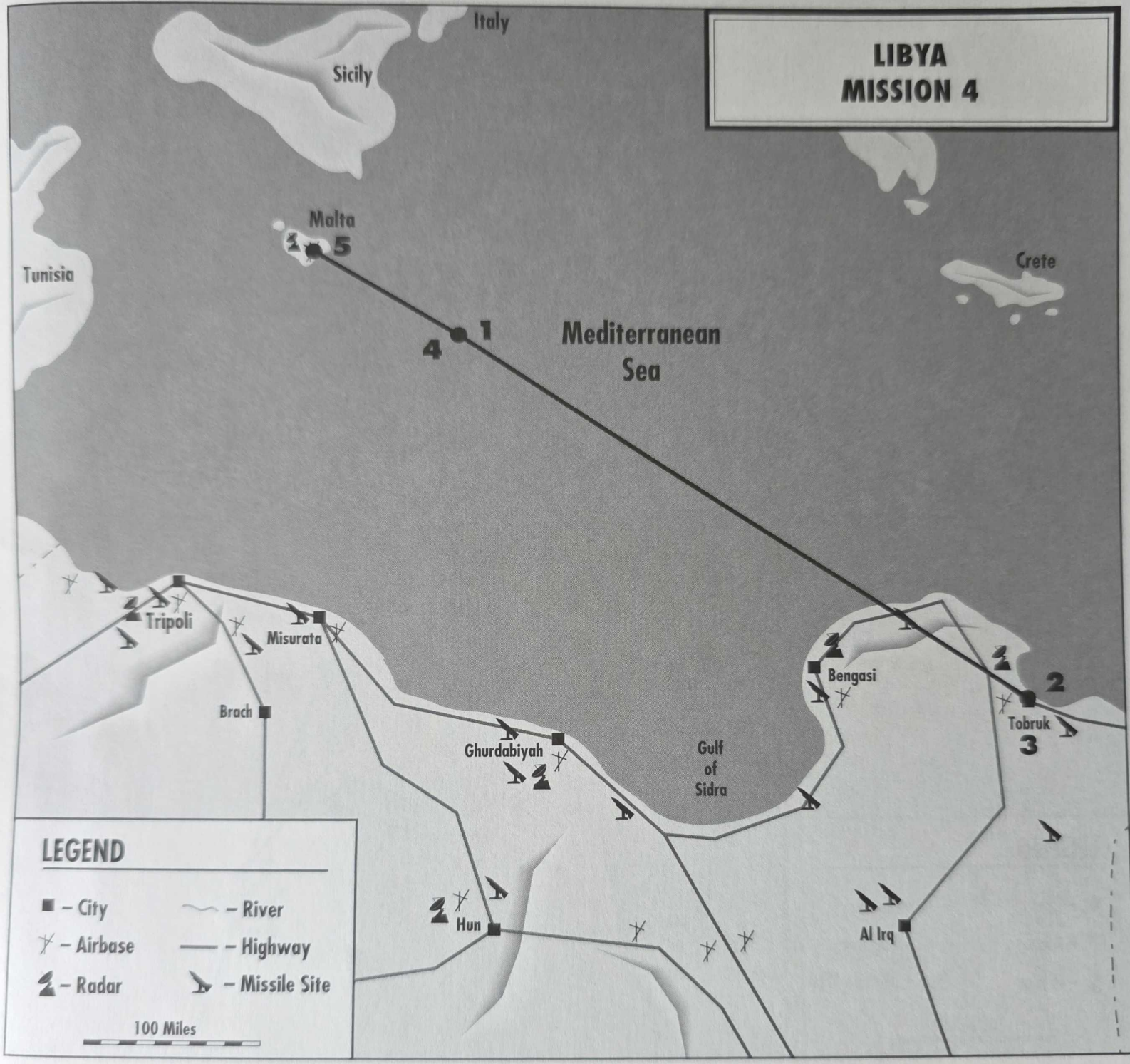
Sea
4
3
2
Tripoli
Misurata
Brach
Bengasi
Tobruk
Ghurdabiyah
Gulf
of
Sidra
Hun
Al Irq
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles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Crete
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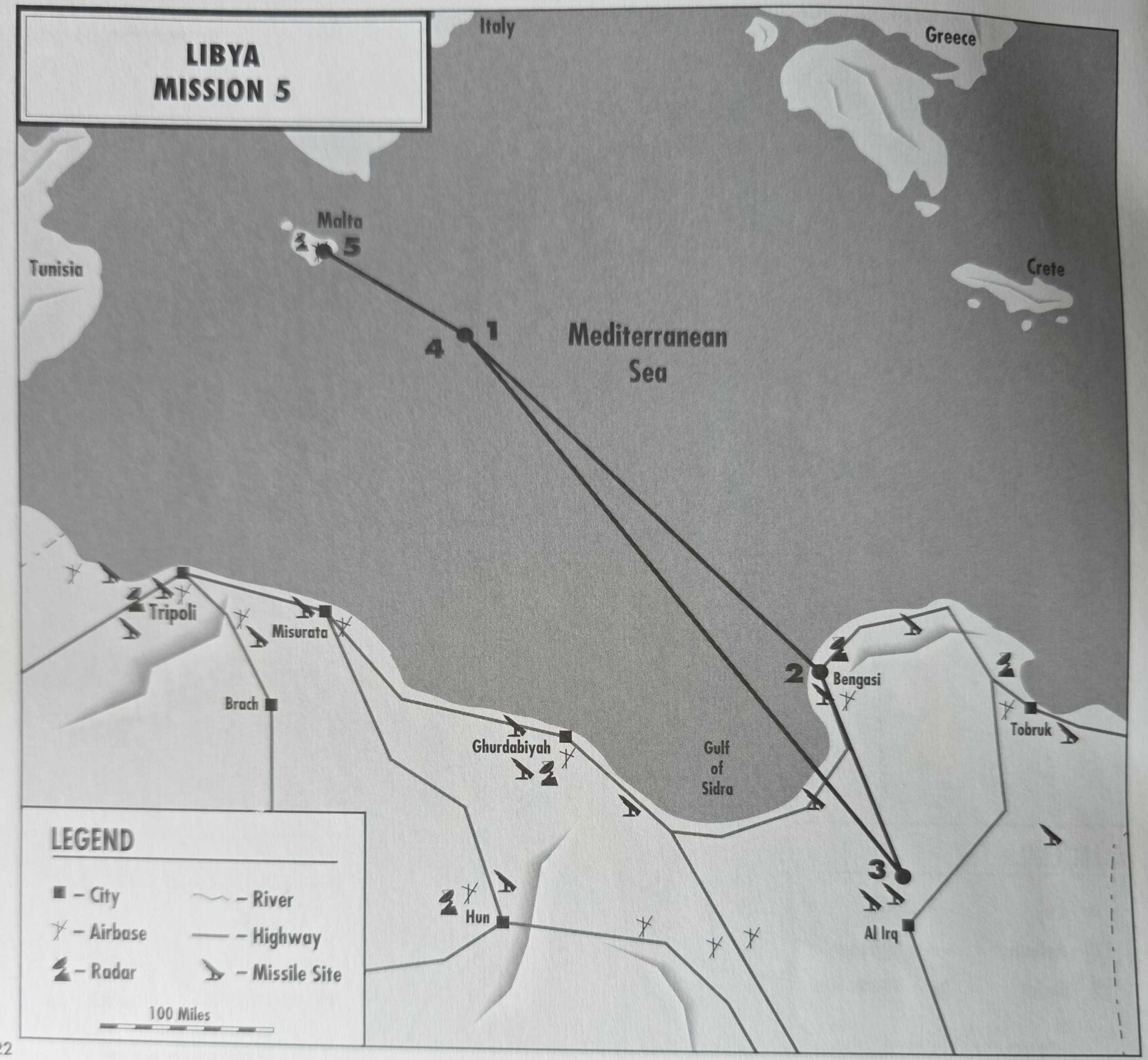
Sea
Tripoli
Misurata
Brach
Bengasi
2
Tobruk
3
Ghurdabiyah
Gulf
of
Sidra
Hun
Al Irq
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles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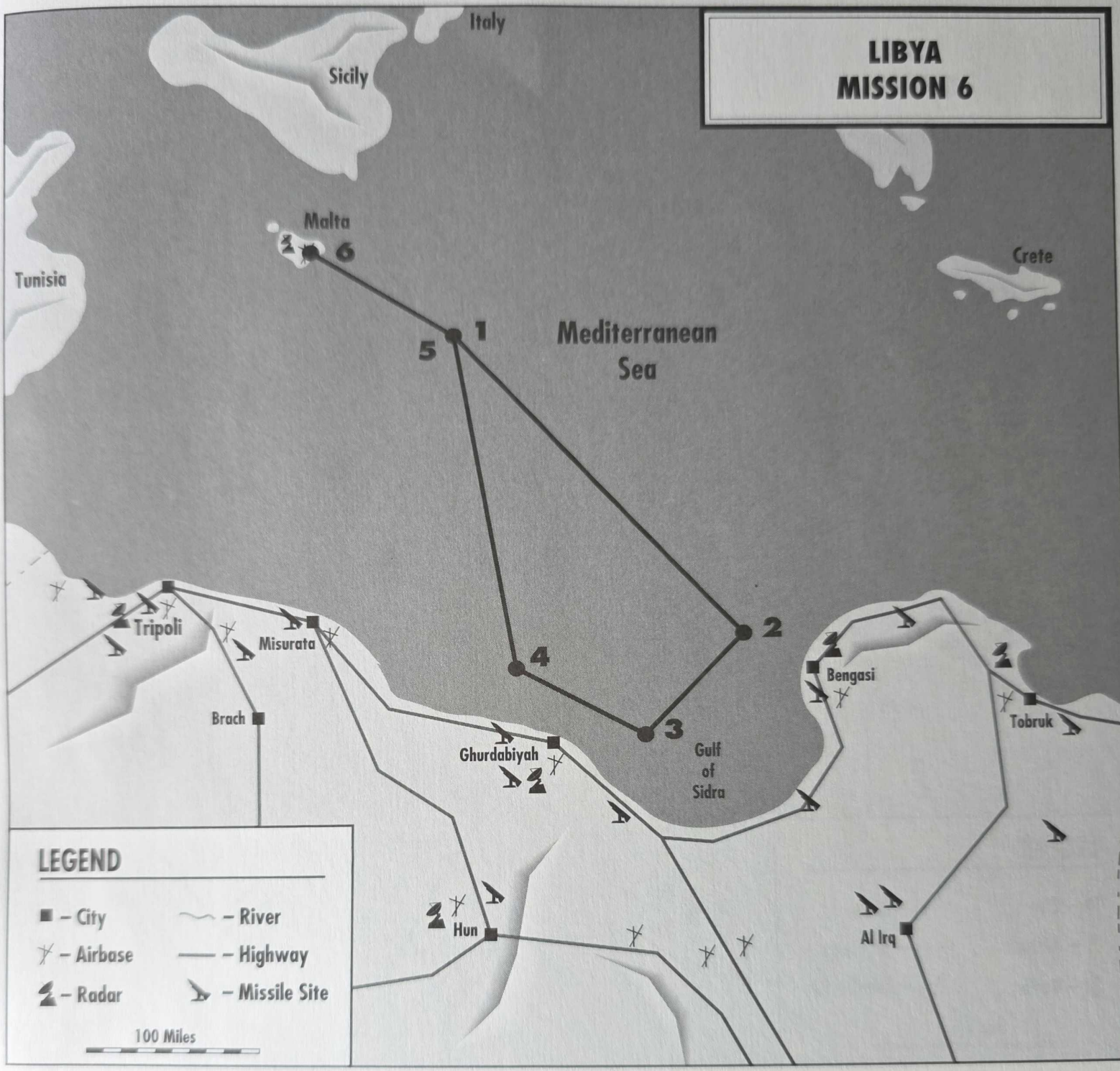
Sea
Tripoli
Misurata
2
Bengasi
Brach
Tobruk
Ghurdabiyah
Gulf
of
Sidra
3
Hun
Al Irq
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles


LIBYA
MISSION 6
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Sea
2
4
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Tripoli
Misurata
Bengasi
Tobruk
Brach
Ghurdabiyah
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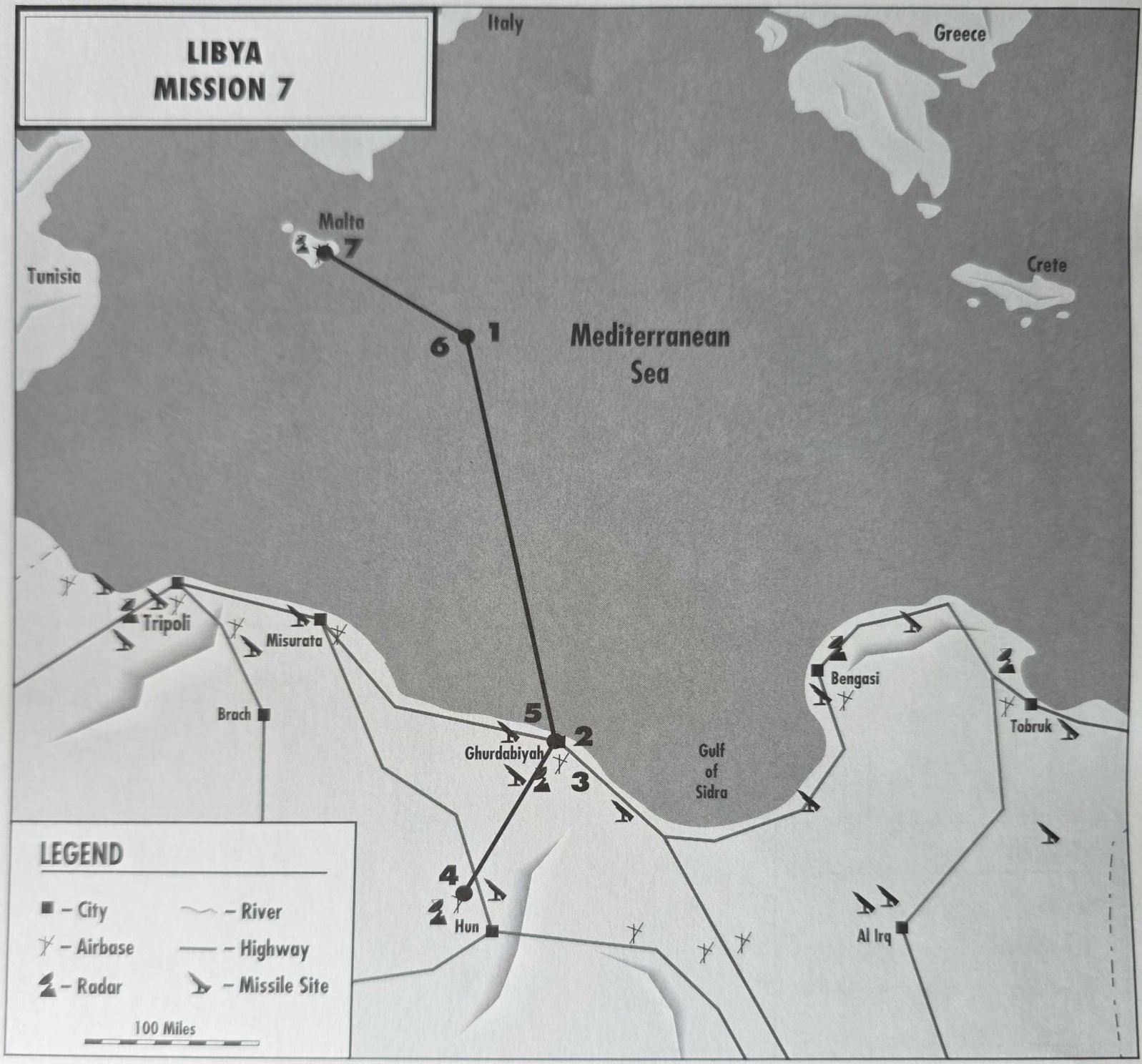
Sidra
Hun
Al Irq
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles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Mediterranean
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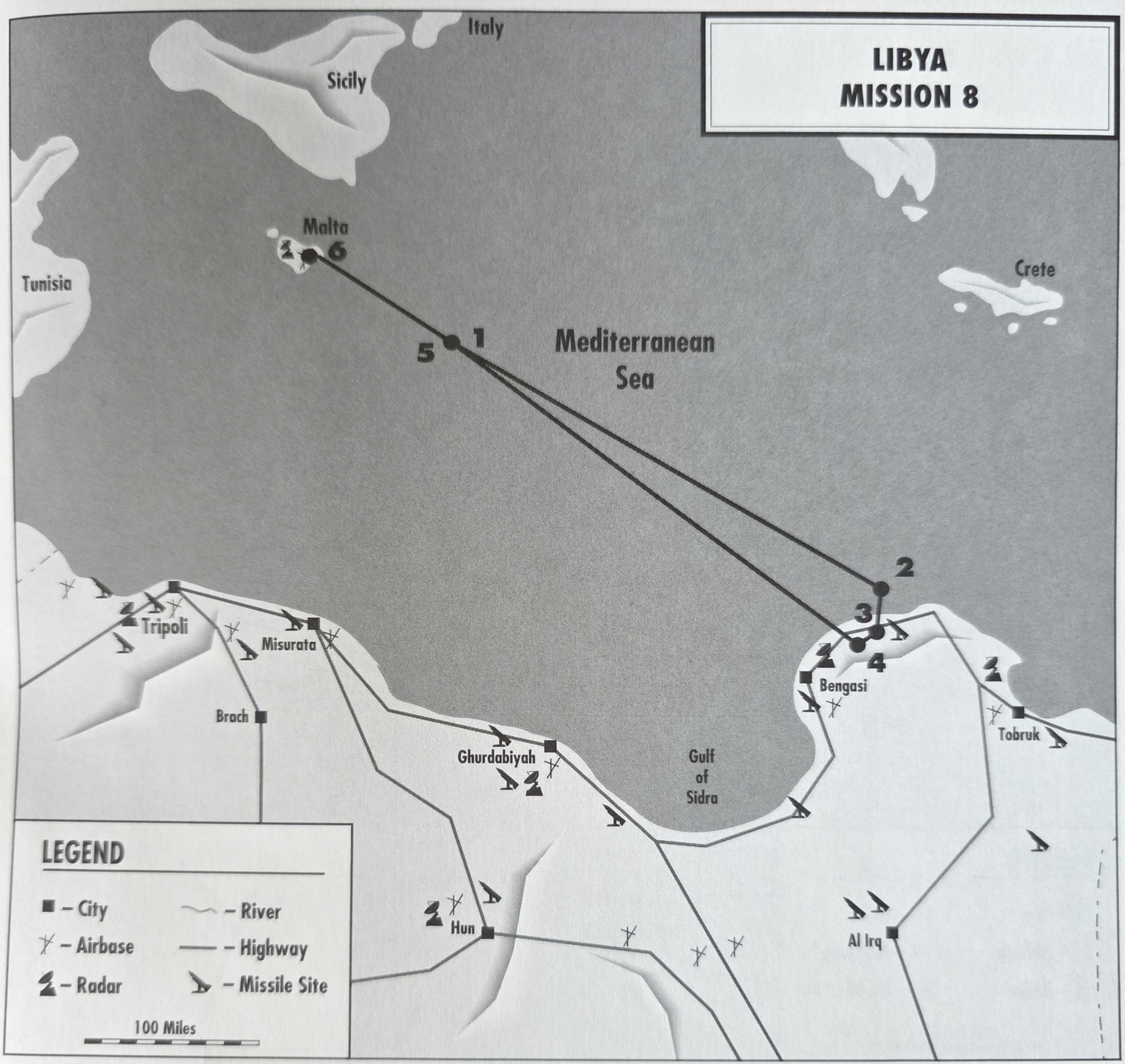
Brach
5
2
Ghurdabiyah
3
Gulf
of
Sidra
Bengasi
Tobruk
4
Hun
Al Irq
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles


LIBYA
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Sicily
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Crete
Mediterranean
Sea
1
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Tripoli
Misurata
Brach
Ghurdabiyah
Gulf
of
Sidra
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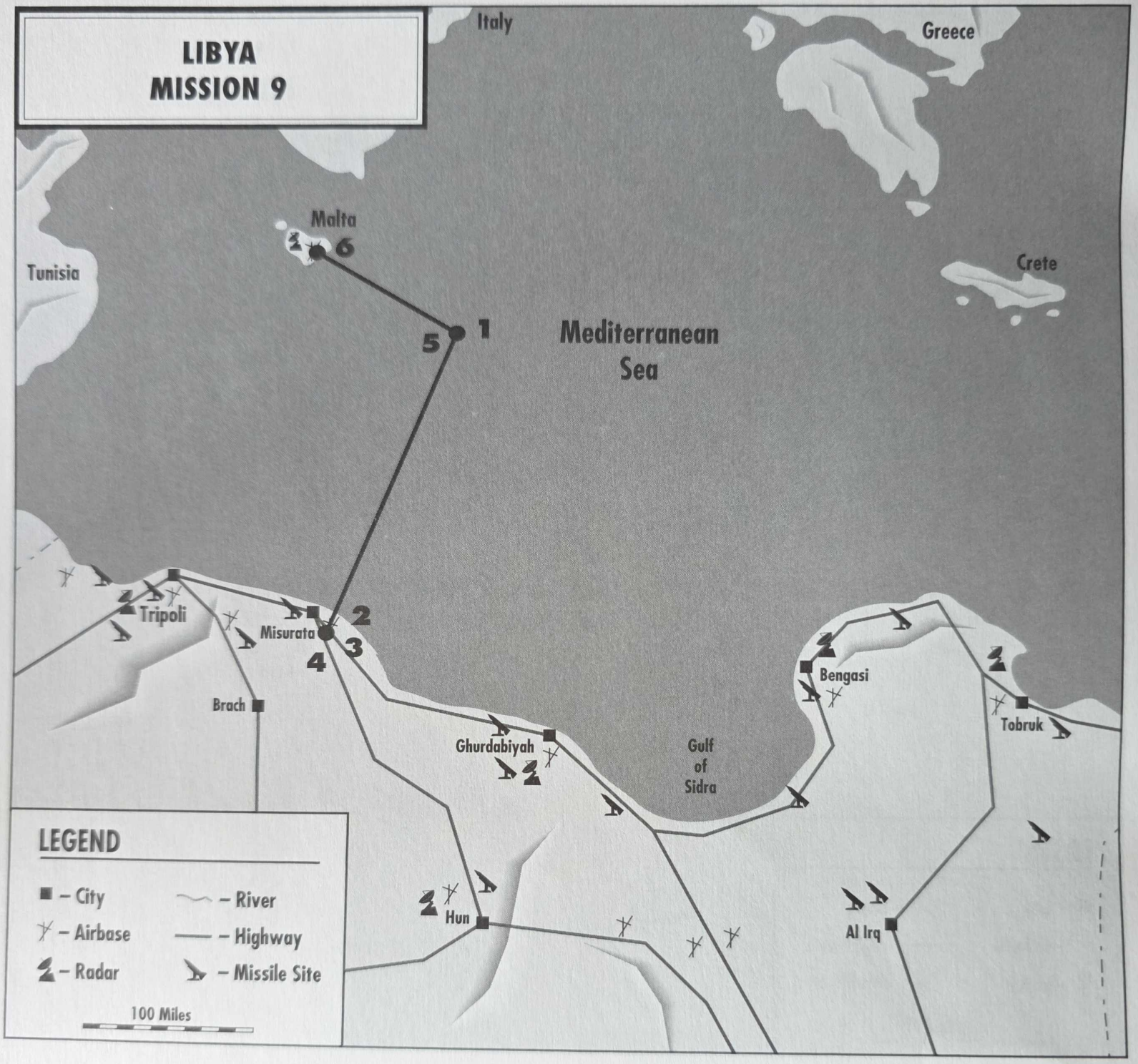
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles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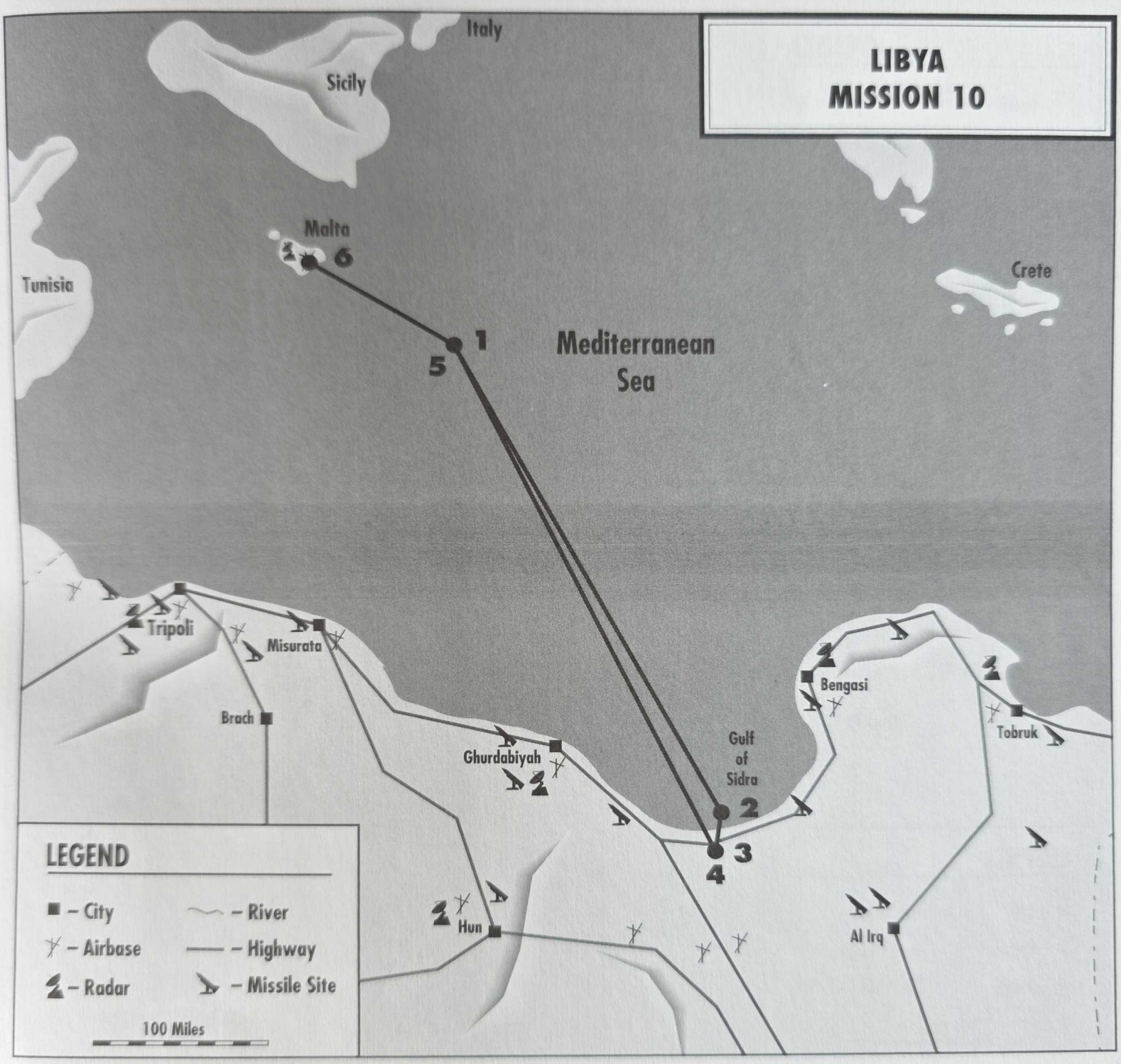
2
3
4
Bengasi
Brach
Tobruk
Ghurdabiyah
Gulf
of
Sidra
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Hun
Al Irq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Ghurdabiyah
Gulf
of
Sidra
2
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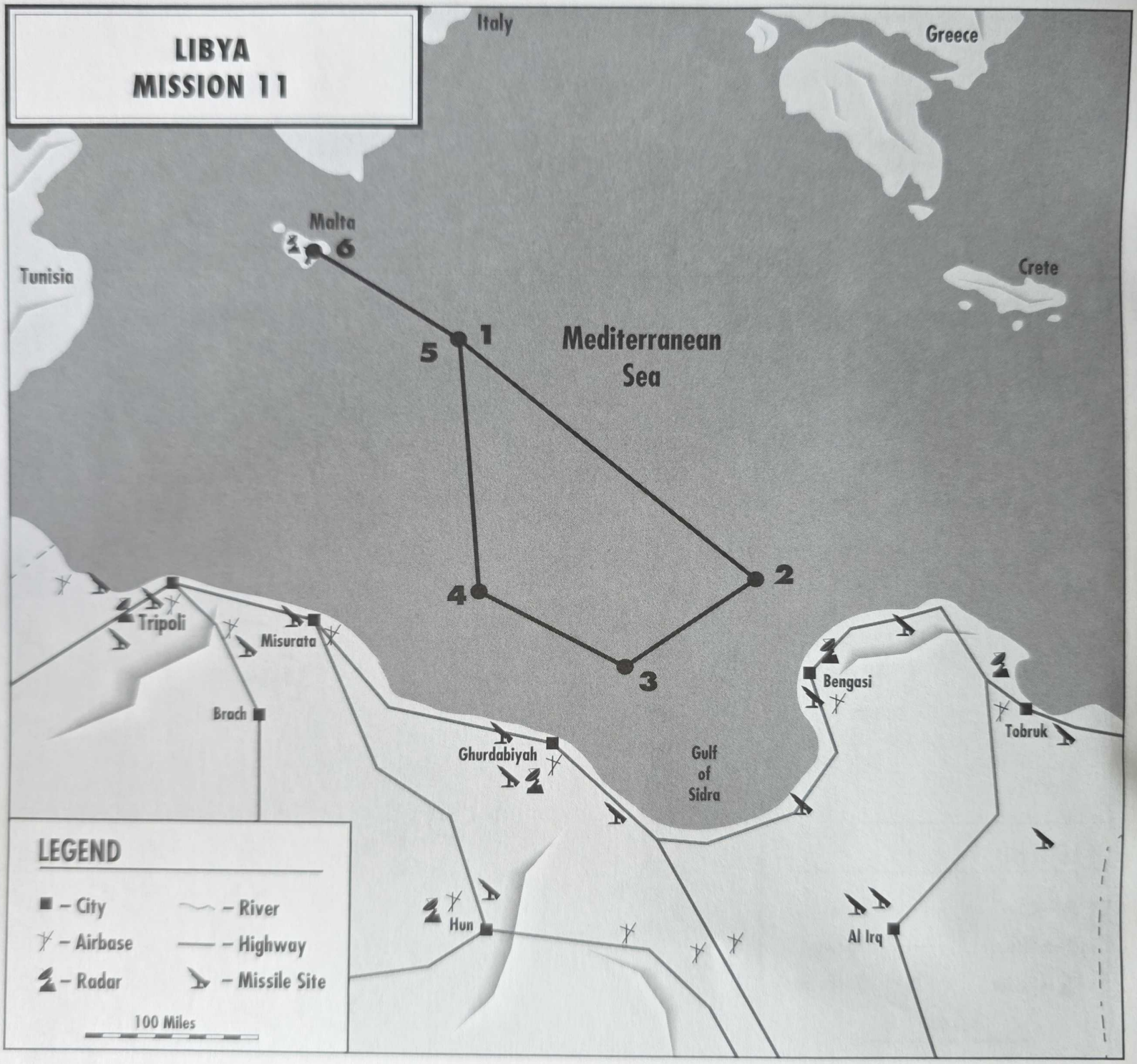
Al Irq
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles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Sea
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Tripoli
Misurata
Brach
Ghurdabiyah
Gulf
of
Sidra
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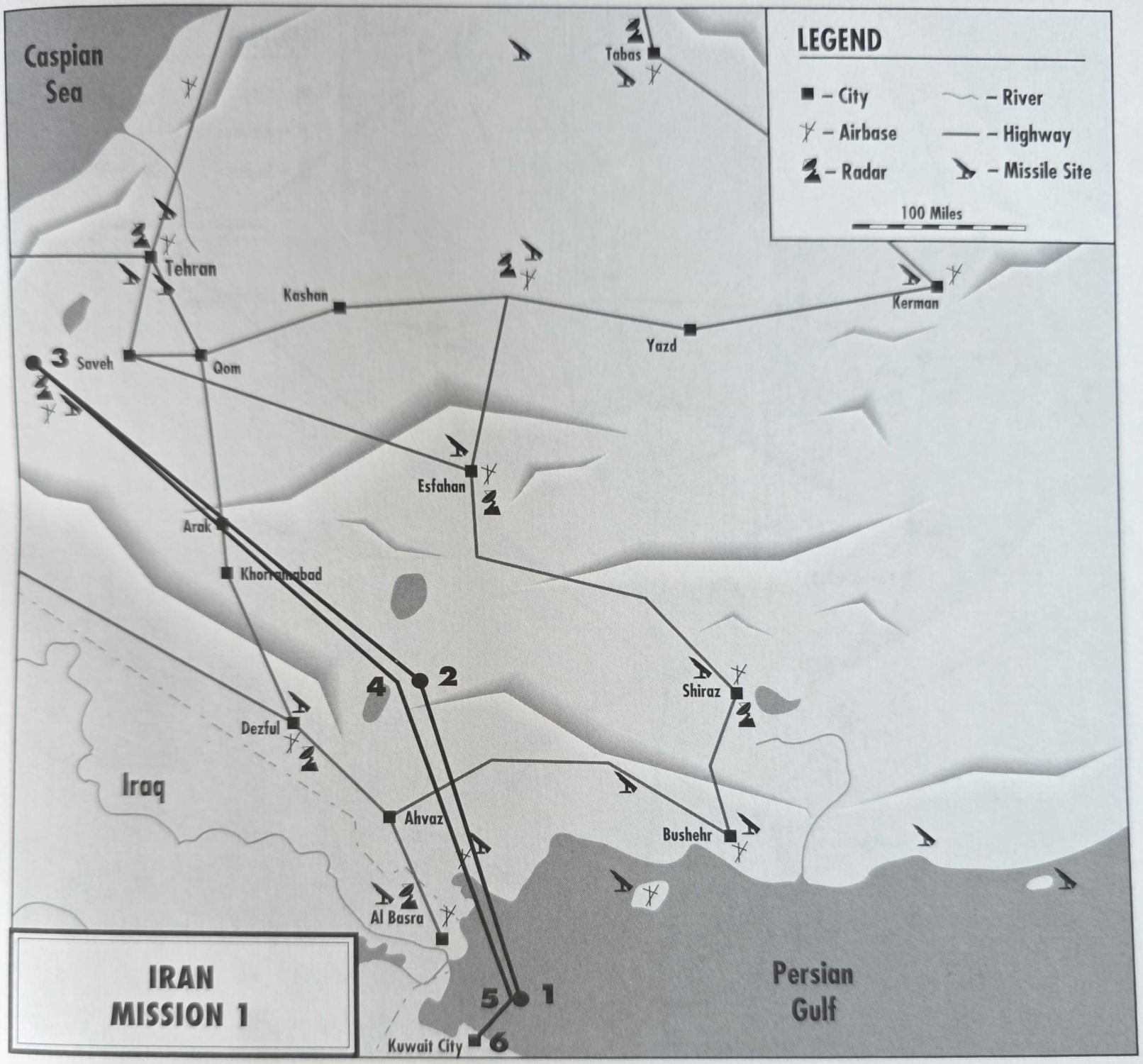
Tobruk
Hun
Al Irq
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles


Caspian Sea
Tabas
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Tehran
Kashan
Kerman
Yazd
3
Saveh
Qom
Esfahan
Arak
Khorramabad
4
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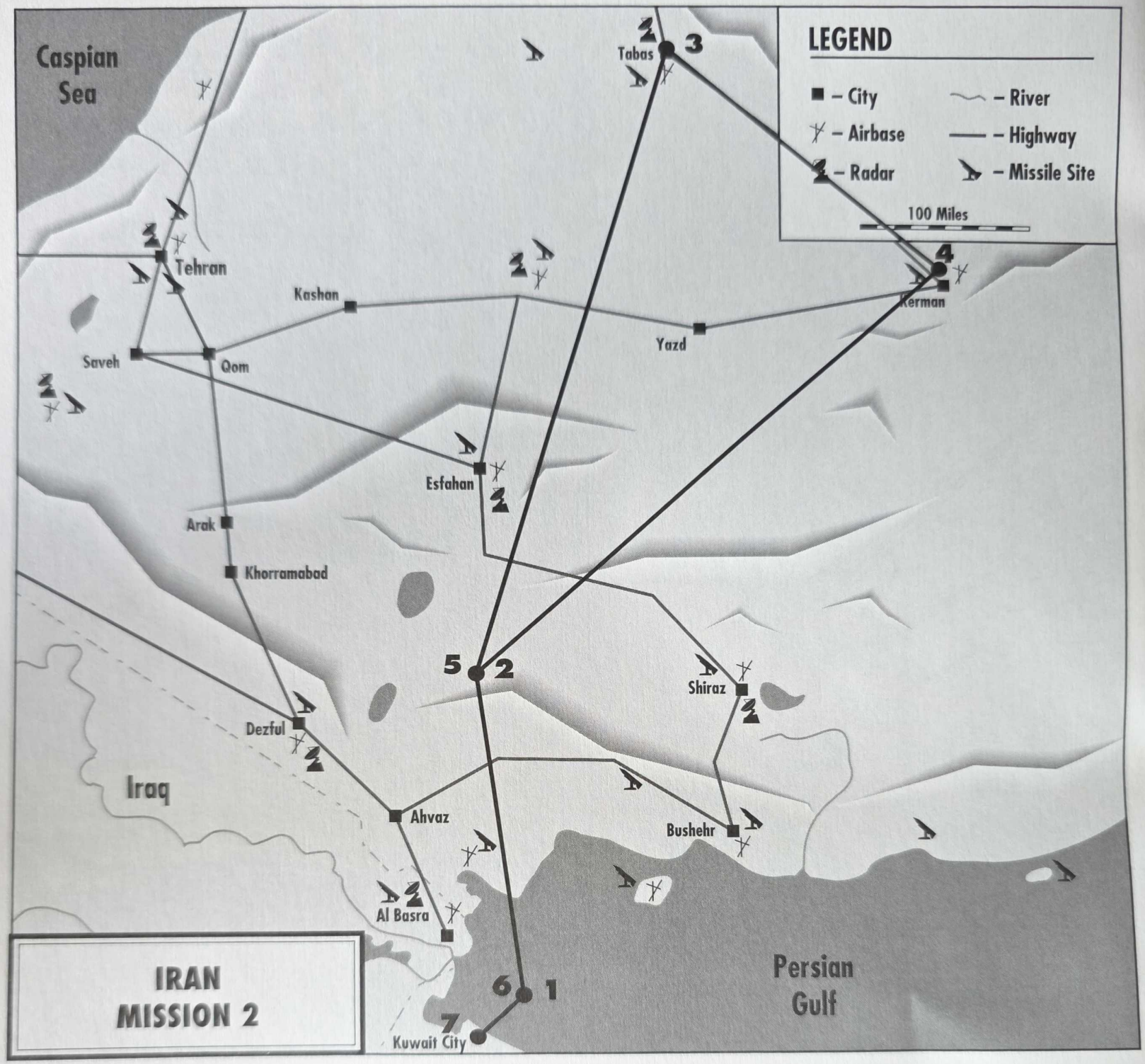
Shiraz
Dezful
Iraq
Ahvaz
Bushehr
Al Basra
IRAN
MISSION 1
5
1
Persian Gulf
Kuwait City
6


Caspian Sea
Tabas
3
LEGEND
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– Airbase
– Highway
– Radar
– Missile Site
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Kerman
Yazd
Saveh
Qom
Esfahan
Arak
Khorramabad
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7
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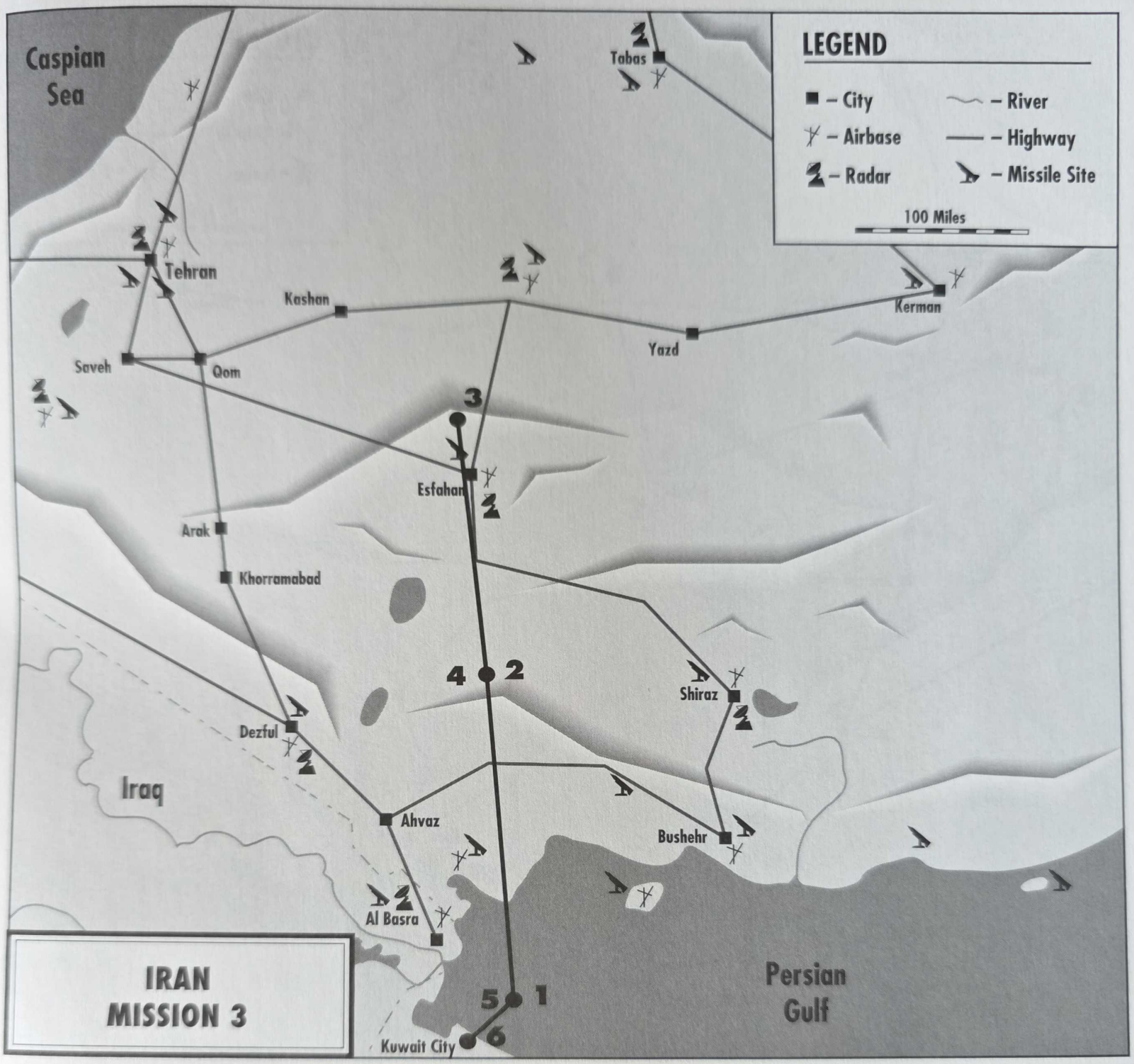
MISSION 2


LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Caspian Sea
Tabas
Tehran
Kashan
Kerman
Yazd
Saveh
Qom
3
Esfahan
Arak
Khorramabad
4
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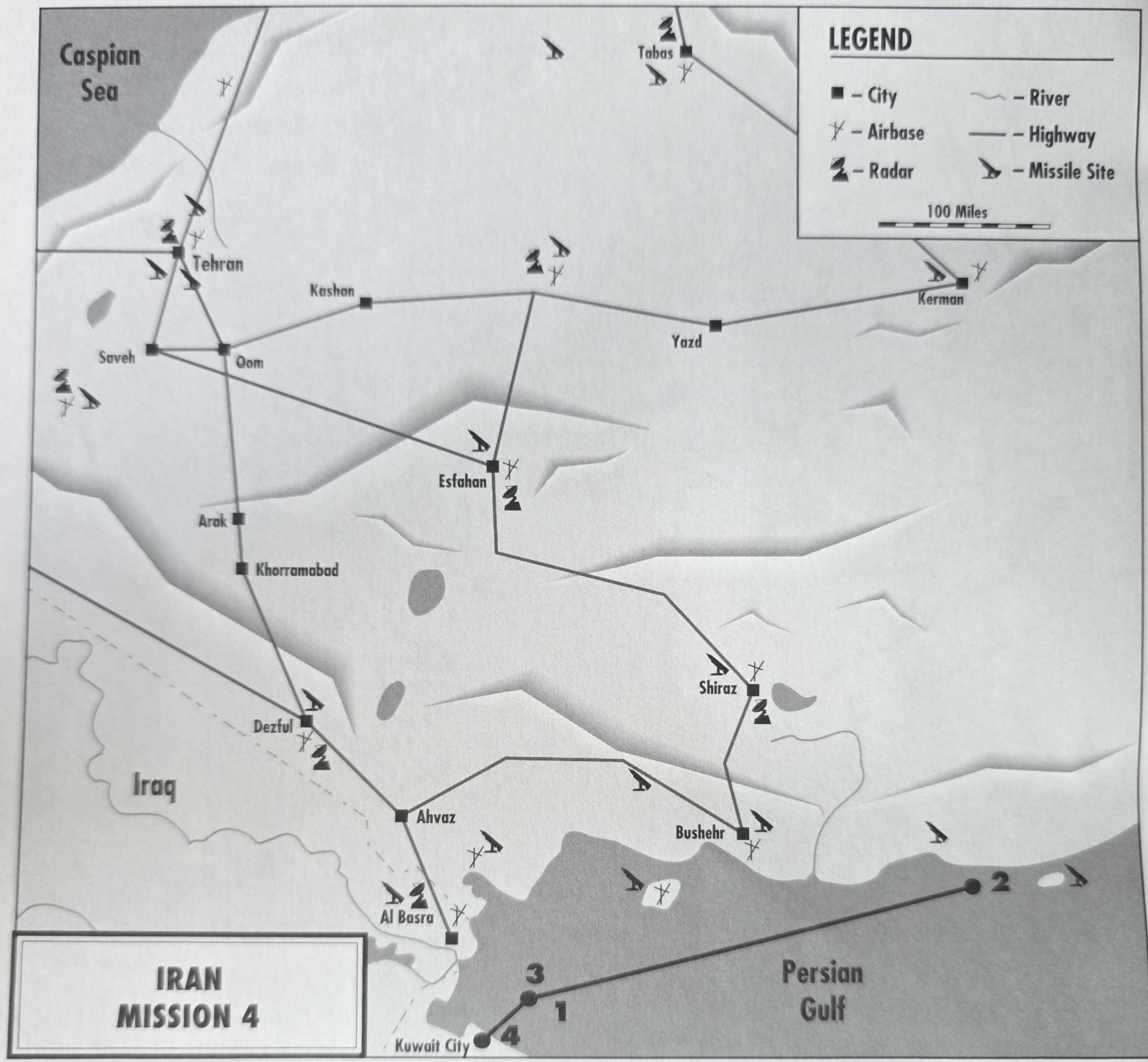
Caspian Sea
Tabas
LEGEND
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– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
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Kerman
Yazd
Saveh
Qom
Esfahan
Arak
Khorramabad
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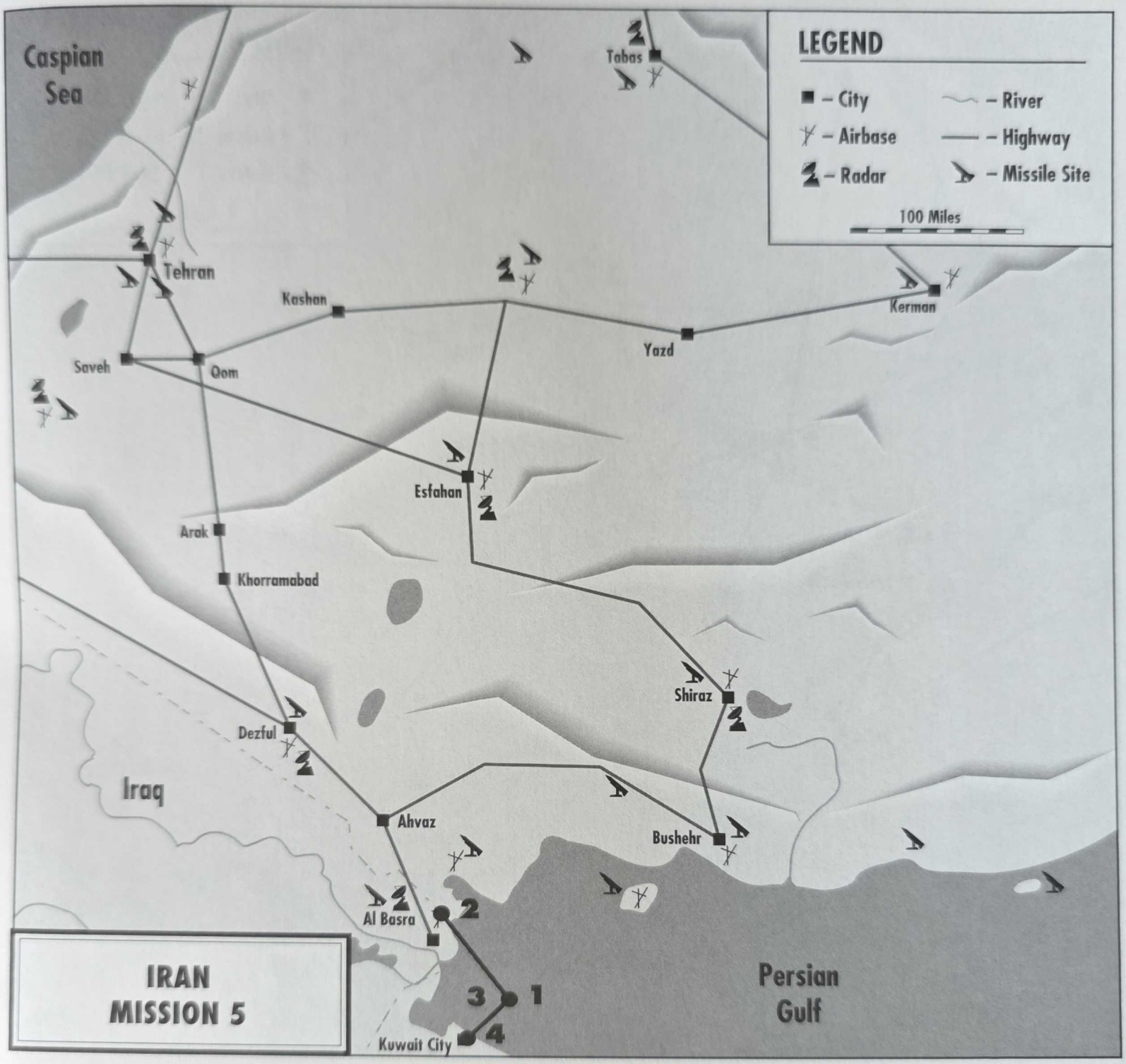
Caspian Sea
Tabas
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– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Tehran
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Kerman
Yazd
Saveh
Qom
Esfahan
Arak
Khorramabad
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Persian Gulf
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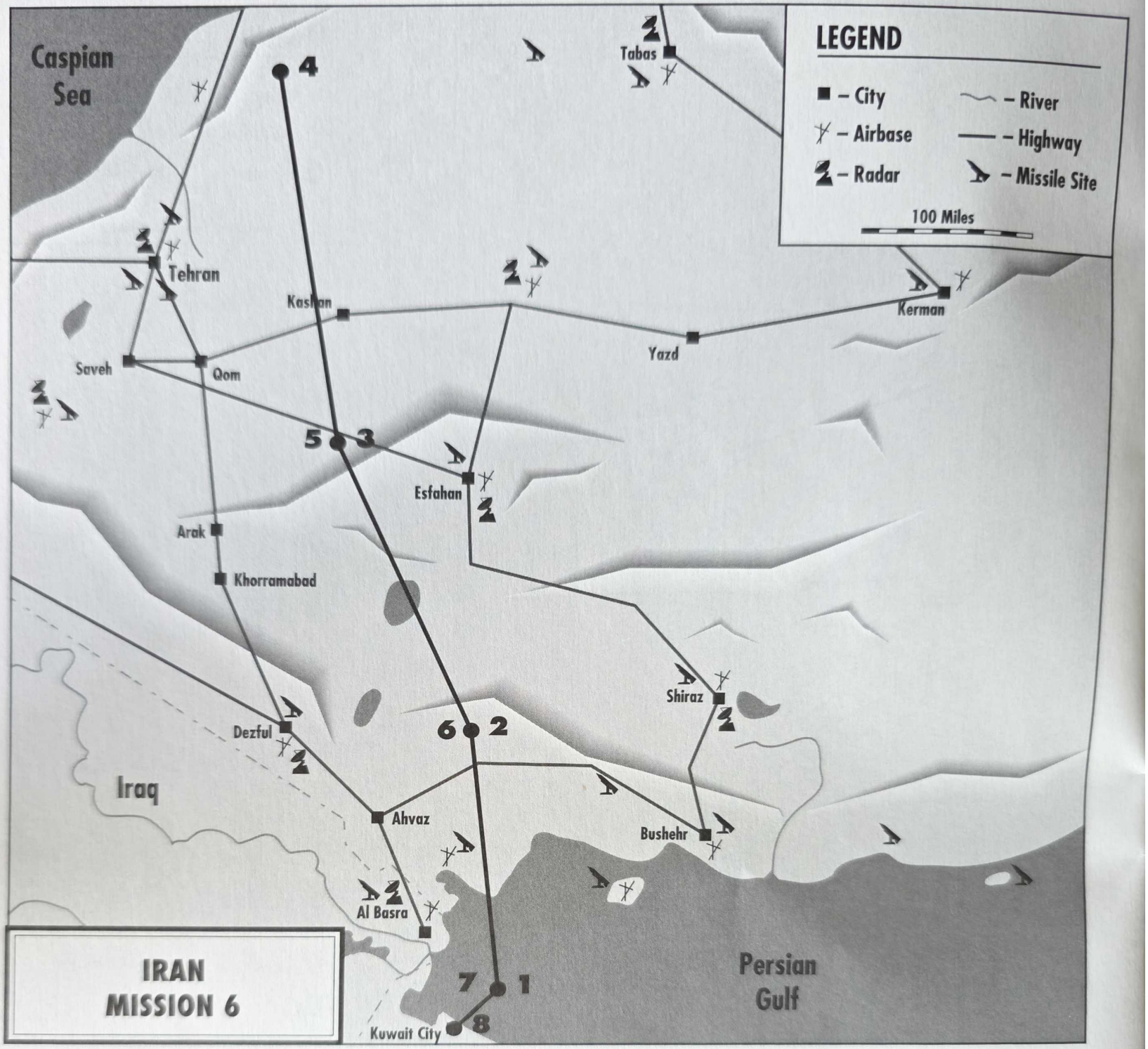
Caspian Sea
Tabas
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– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
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Esfahan
Arak
Khorramabad
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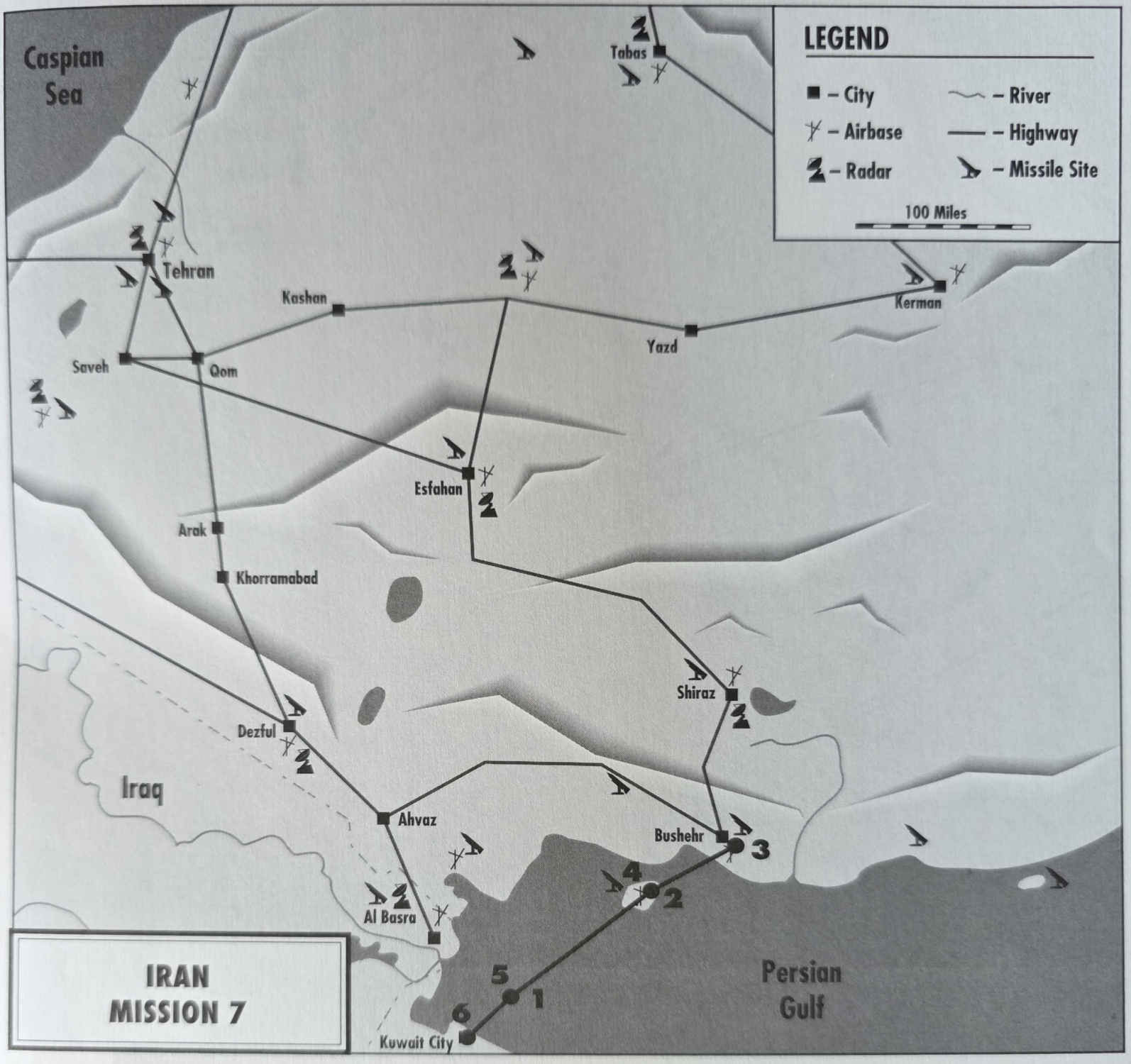
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– Highway
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– Missile Site
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Saveh
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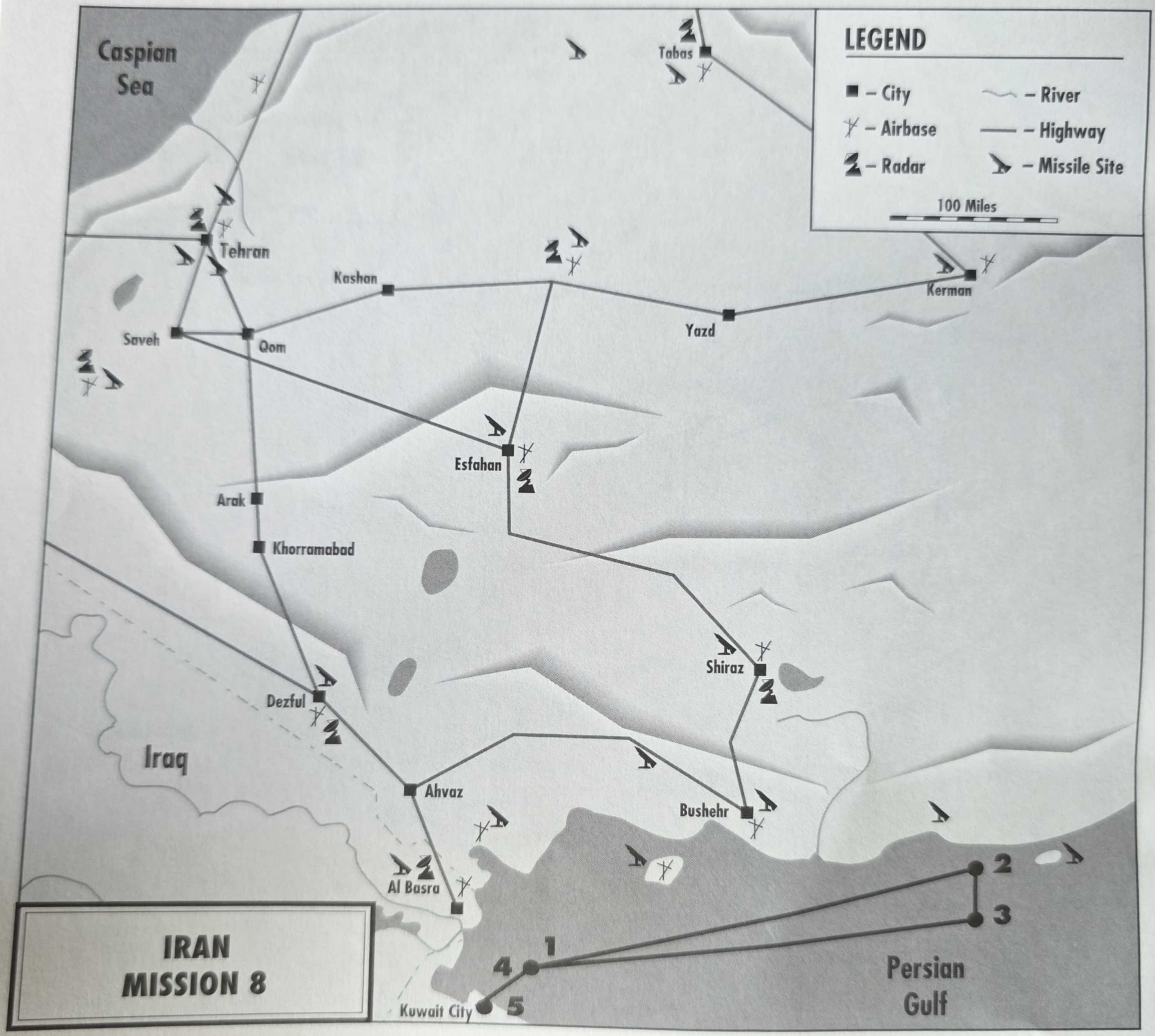
Caspian Sea
Tabas
LEGEND
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– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Tehran
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Kerman
Yazd
Saveh
Qom
Esfahan
Arak
Khorramabad
Shiraz
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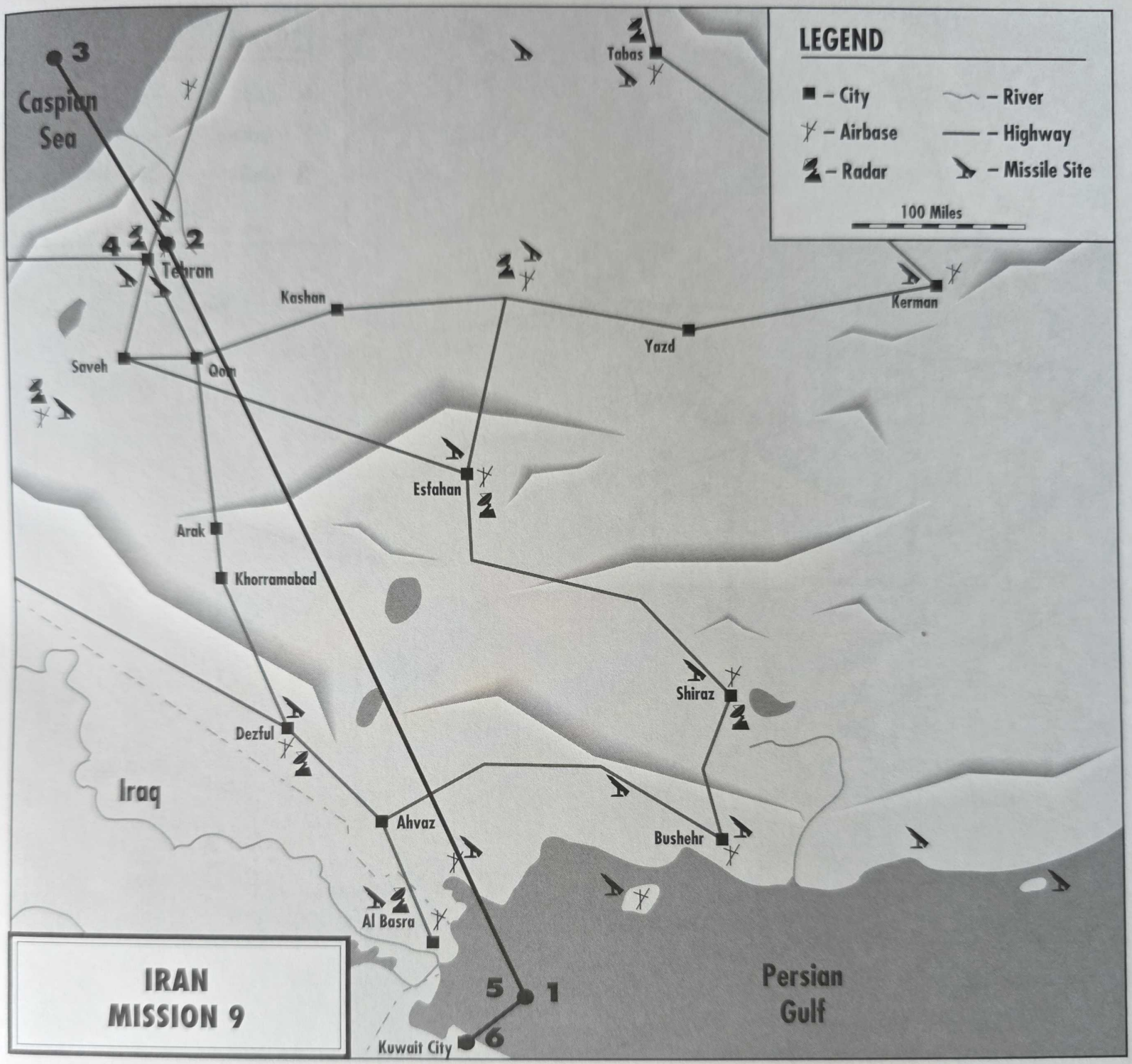
MISSION 8


LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Caspian Sea
Tabas
Tehran
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Kerman
Yazd
Saveh
Qom
Esfahan
Arak
Khorramabad
Shiraz
Dezful
Iraq
Ahvaz
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Al Basra
Persian Gulf
Kuwait City
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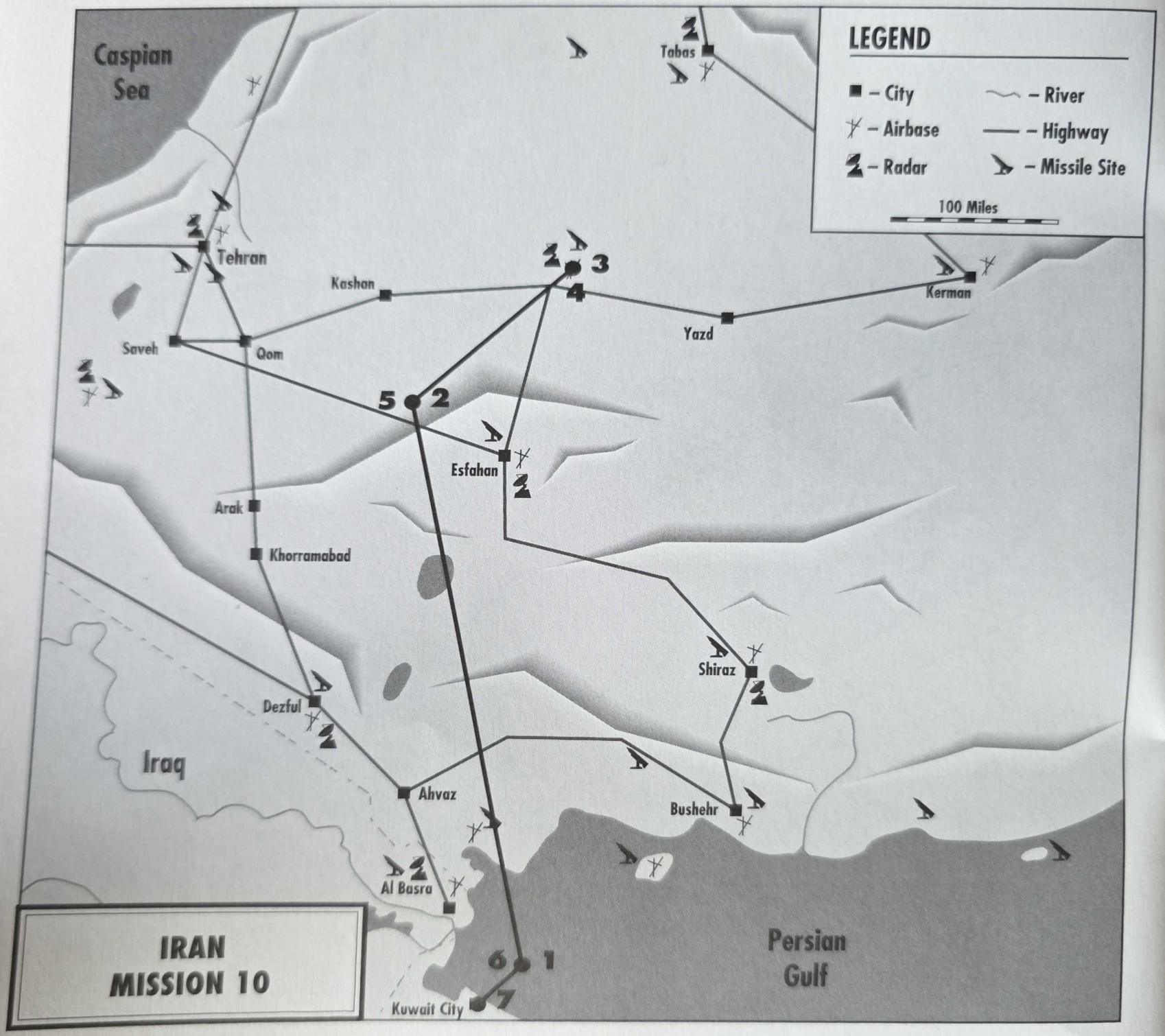
6
IRAN
MISSION 9


Caspian Sea
Tabas
LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Tehran
Kashan
3
4
Kerman
Yazd
Saveh
Qom
5
2
Esfahan
Arak
Khorramabad
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Ahvaz
Bushehr
Al Basra
IRAN
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1
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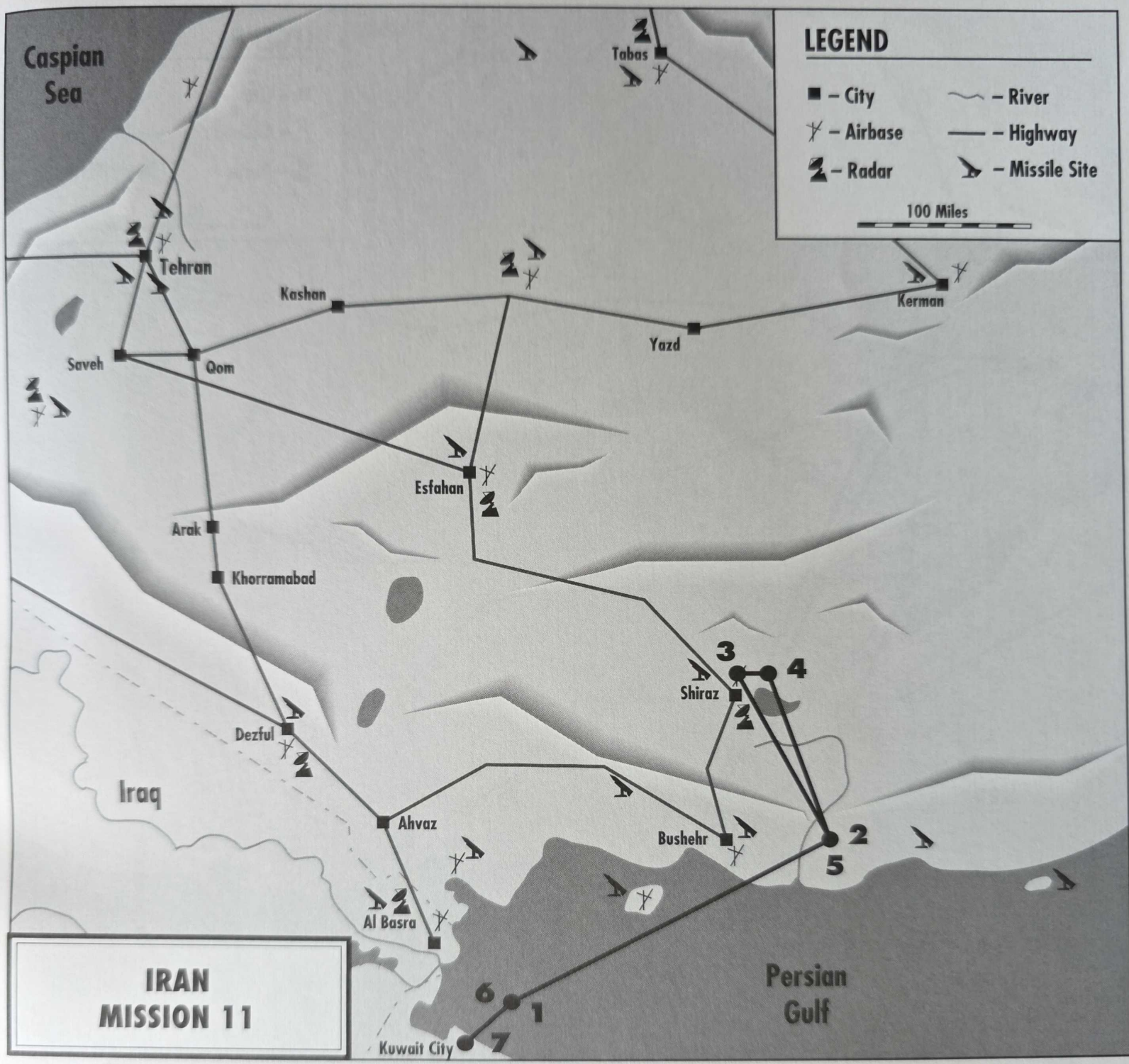
Kuwait City
Persian Gulf


LEGEND
– City
– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Caspian Sea
Tabas
Tehran
Kashan
Kerman
Yazd
Saveh
Qom
Esfahan
Arak
Khorramabad
Shiraz
Dezful
Iraq
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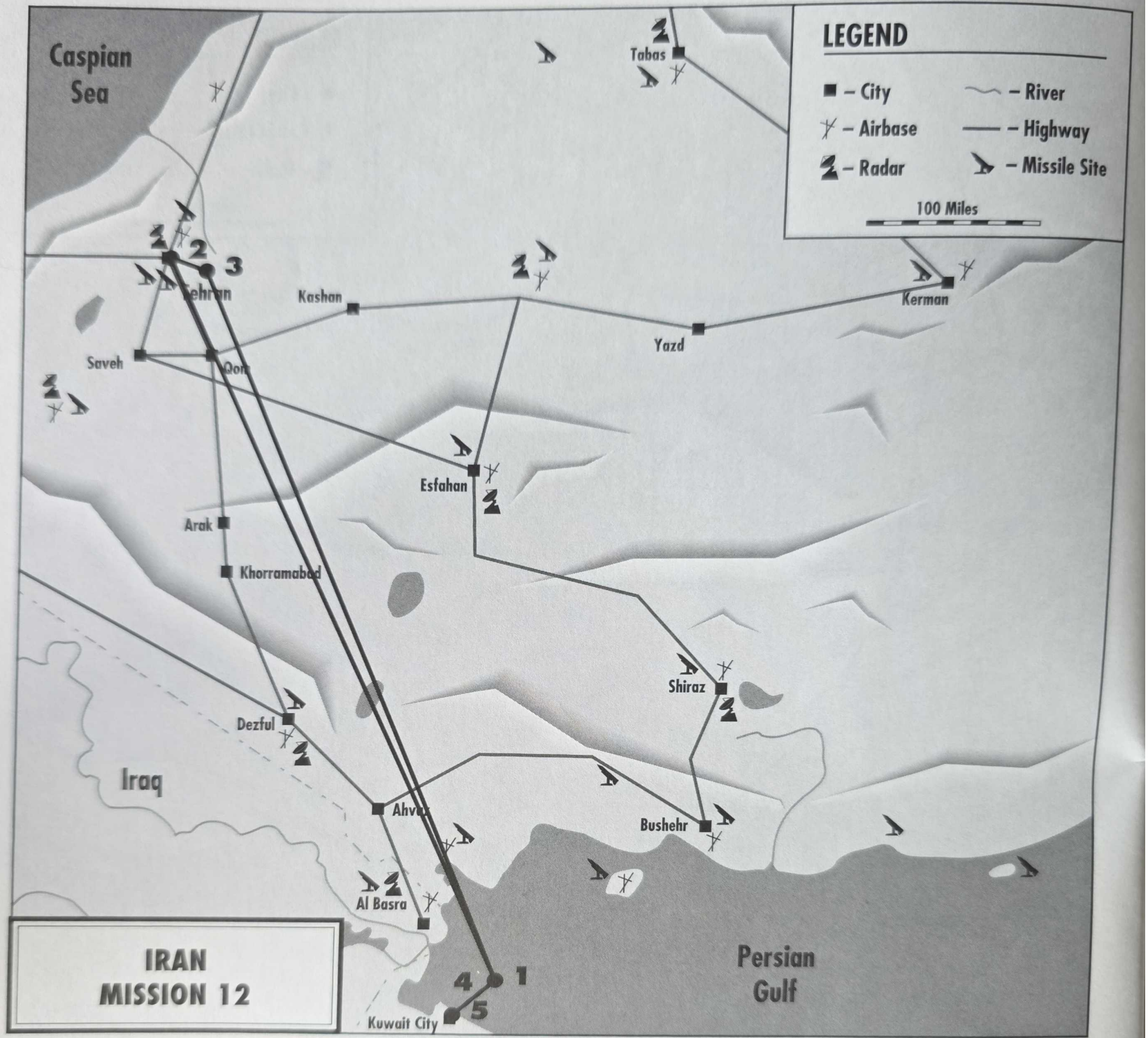
7
IRAN
MISSION 11


Caspian Sea
Tabas
LEGEND
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– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
2
3
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Kashan
Kerman
Yazd
Saveh
Qom
Esfahan
Arak
Khorramabad
Shiraz
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Bushehr
Al Basra
IRAN
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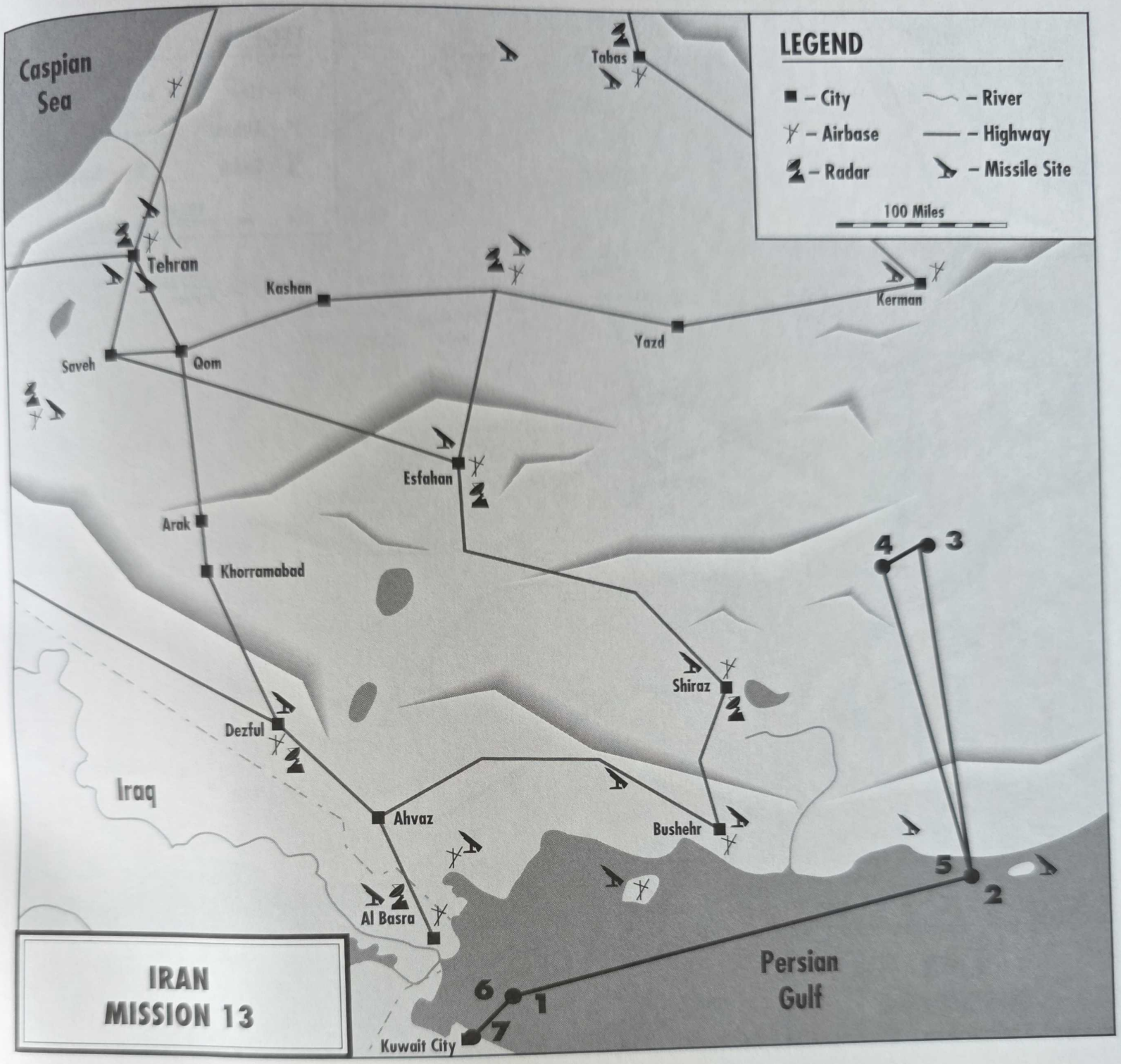
Kuwait City


LEGEND
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– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Caspian Sea
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Tehran
Kashan
Kerman
Yazd
Saveh
Qom
Esfahan
Arak
Khorramabad
Shiraz
Dezful
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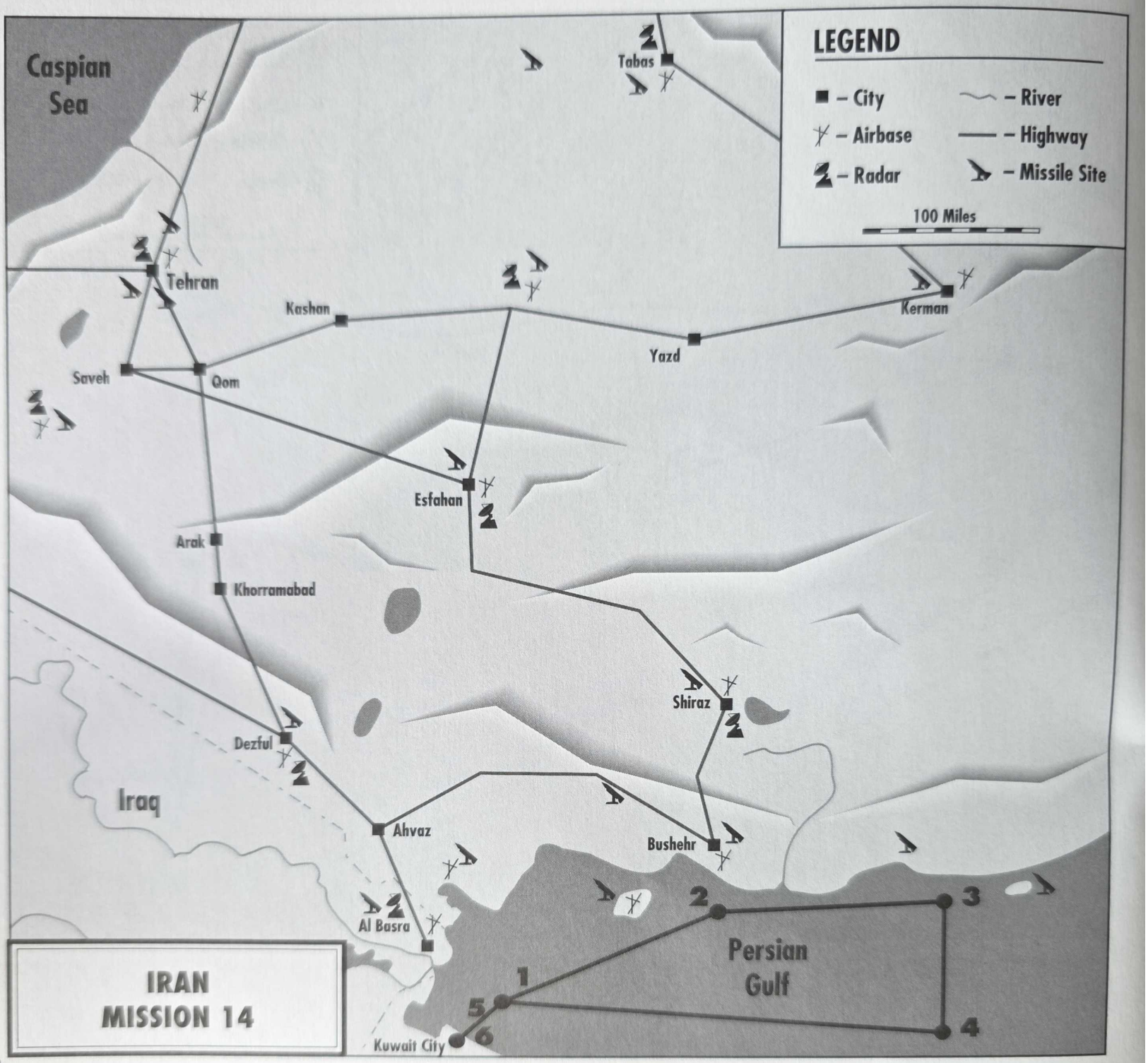
IRAN
MISSION 13


Caspian Sea
Tabas
LEGEND
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– River
– Airbase
– Highway
– Radar
– Missile Site
100 Miles
Tehran
Kashan
Kerman
Yazd
Saveh
Qom
Esfahan
Arak
Khorramabad
Shiraz
Dezful
Iraq
Ahvaz
Bushehr
Al Basra
Persian Gulf
1
2
3
4
5
6
Kuwait City
IRAN
MISSION 14

CREDITS

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Produced By ..... Jon Correll